Federation Proceedings

VOLUME 14 *December 1955* NUMBER 4

FORTIETH ANNUAL MEETING

ATLANTIC CITY, NEW JERSEY

April 15–20, 1956

THE 1956 MEETINGS of the Federation will be held in Atlantic City, New Jersey, April 15–20. Scientific sessions will open at 1:15 P.M., Monday, April 16, and will continue through Friday afternoon, April 20. Session rooms will be located in Convention Hall and in the Dennis, Ritz-Carlton and Marlborough-Blenheim Hotels. The motion picture session will be Monday evening, April 16, and the Joint Session, Tuesday evening, April 17; both will be in the Ballroom of Convention Hall. Federation Board and Society Council and Committee meetings will be Sunday and Monday, April 15 and 16.

HEADQUARTERS HOTEL

Headquarters for all six Societies will be Chalfonte-Haddon Hall. Information on hotel rates and hotel reservation forms will be distributed to members by Society Secretaries. Additional forms can be secured either from Society Secretaries or by writing to the Federation Office, 9650 Wisconsin Avenue, Washington 14, D. C. *It is important that the official hotel reservation form be used to insure that your reservation is identified with the Federation Meetings and that you will receive the benefit of arrangements made especially for the Federation.*

PAPERS FOR THE PROGRAM

Abstracts of papers to be printed in FEDERATION PROCEEDINGS must be submitted in quadruplicate to the Secretary of the Society of membership and must reach him *not later than January 9, 1956.* Federation rules for submission of titles and abstracts appear on the next page.

Intersociety sessions will be organized under the topics of Atherosclerosis, Blood Clotting, Radiation Biology, Tumors and, possibly, Cholinesterase. The Society Secretaries will choose the papers for these sessions, but authors of papers pertinent to the topics are urged to suggest, in the upper left corner of their abstract, "Intersociety Session on _____".

OTHER MEETINGS

The Histochemical Society and the American Society for Artificial Internal Organs will hold scientific sessions Sunday and Monday, April 15 and 16, in Convention Hall. Programs and other information will be issued by these societies to their members.

REGISTRATION INFORMATION

Registration desks will be open Sunday, April 15, 8:30 A.M.–4:30 P.M. in the main lobby of Convention Hall for the registration of exhibitors, Society Councils, and Histochemical Society and Artificial Internal Organ Society members. On Monday, April 16, registration desks will open at 8:00 A.M. and remain open until 9:00 P.M.; Tuesday through Thursday, April 17–19, registration desks will open at 8:00 A.M. and close at 5:00 P.M.; Friday, April 20, registration desks will be open from 8:00 A.M. until 2:00 P.M.

Members of the Federated Societies, other biologists and physicians who wish to attend the meetings may register. *The registration fee will probably be $5.00. The official badge issued at the registration desks must be worn to secure admission to scientific sessions and other activities.*

Programs and abstracts will be on sale in the lobby of the Auditorium near the registration desks. Tickets for various special functions scheduled in the program will be on sale in the same area.

A message center will be located in the registration area for distribution of mail and telegrams and exchange of personal communications.

ACTIVITIES FOR LADIES

A Ladies Committee, headed by Mrs. Karl Habel, will arrange interesting activities for wives coming to Atlantic City. A tea and reception on Monday, April 16, and bus tours during the week to points of interest around Atlantic City will be scheduled. A modest registration fee, which will include the tea and reception, will be charged to defray expenses. Further information will be forwarded to members with the Society Fall mailings. Ladies interested in these activities are asked to advise Mrs. Habel at 9650 Wisconsin Avenue, Washington 14, D. C., so that reservations and plans can be made.

EXHIBITS

Exhibits will be located in the Main Arena of Convention Hall. Member and institutional exhibits will be interspersed among those of industrial firms. Exhibit hours will be as follows: Monday–Thursday, April 16–19, 8:45 A.M.–6:00 P.M.; Friday, April 20, 8:45 A.M.–1:00 P.M.

SPECIAL FUNCTIONS

The Federation Office will assist in arrangements for meal functions and meetings of informal groups. Reservation forms and information are available from the Federation Office. Groups which desire a notice of their meetings in the Program should advise the Federation Office not later than January 30, 1956.

PLACEMENT SERVICE

The office of the Placement Service will be located on the Main Arena Floor of Convention Hall and will open for candidate registration at 1:00 P.M., Sunday, April 15. Registration for employers will begin Monday, April 16, at 8:15 A.M. Candidates for positions who wish to use the interview service and to register in advance should write to the Federation Placement Service, 9650 Wisconsin Avenue, Washington 14, D. C., for application forms, which must be returned not later than March 30, 1956. Candidates who have previously filed forms with the Service are requested to notify the office of their intention to use the interview service and to supply additional data not later than March 30. Complete application forms of all candidates present at Atlantic City will be on file at the Placement Service office there. The last list of available candidates to be prepared before the Annual Meeting will be that of February 1956. Candidates who wish to be included in this must file their completed application forms before February 1.

Employers who are annual subscribers to the Placement Service lists, or those who subscribe to the February 1956 list of candidates, are eligible to use the facilities of the Service at the meeting. An identification card will be issued to each subscriber, and any member of a department or faculty may use the Department's or Dean's subscription privilege for scheduling interviews if properly identified. Subscribers who wish to have their privileges at the meeting utilized by anyone in their organization should complete and return the authorization form or send a written authorization to the Washington office not later than March 30. These authorization forms will be mailed to all subscribers early in March.

Agencies seeking personnel should write to the Federation Placement Service for employers' registration cards on which to describe vacancies and to record their Atlantic City address. To have a description of the positions entered in the March semiannual list of positions, the completed cards must reach the Washington office before March 1. Advance registration for the meeting can be made by employers up to March 30.

Regulations for Submission of Abstracts

FEDERATION RULES

1. No individual may present orally more than one 10-minute scientific paper.

2. An author's name may not appear more than once in the lists of papers "Read by Title".

3. Request of a member for transfer of a paper to or from a Society which restricts its program will not be granted if the member is responsible for the appearance of another paper on any Society's program.

RULES FOR PREPARATION OF ABSTRACTS

1. Abstracts must not exceed 275 words, or equivalent space, including title, authors' names, institutional connections, references and acknowledgments. The text should consist of a single paragraph. Structural chemical formulae, figures or footnotes cannot be used. Tabular data are discouraged but, if used, must permit setting in a single column (2.7 inches) and each line of a table and its heading must be counted as ten text words.

2. Abstracts must be set up to include the following items, in order: a) "Read by Title" or "Motion Picture" if applicable. b) Title (avoid unnecessary words). c) Author/s: name of each non-member joint author with a member is to be followed by an asterisk, denoting "by invitation". Name/s of non-member author/s of a paper introduced by a member must be followed by "(introduced by . . .)". d) Laboratory of origin (as brief as possible). For examples, see FEDERATION PROCEEDINGS, last March issue, Part I. The body of the abstract, typed double space, should follow on the same sheet.

3. Abstracts must be submitted in quadruplicate to the Secretary of the Society of membership. They should be letter-perfect since there will be no opportunity for proofreading by authors. If acknowledgment of receipt of abstract is desired, enclose a self-addressed postal card.

4. For the author index enclose one 3 x 5 card *for each author* with the name and initials in the upper left-hand corner. Example: Smith, T. J.

REPRINTS

If reprints of abstracts are desired, the reprint order form distributed by the Society Secretaries must be completed in full, attached to a copy of the abstract and mailed to the Federation Secretary, 9650 Wisconsin Avenue, Washington 14, D.C.

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY

FEDERATION BOARD, 1955–1956

W. H. SEBRELL, JR., R. W. ENGEL, G. R. COWGILL, *American Institute of Nutrition*
JULES FREUND, F. S. CHEEVER, A. M. PAPPENHEIMER, JR., *American Association of Immunologists*
W. F. HAMILTON, A. C. BURTON, H. E. ESSEX, *American Physiological Society*
J. M. LUCK, PHILIP HANDLER, C. G. KING, *American Society of Biological Chemists*
E. G. GROSS, C. C. PFEIFFER, C. M. GRUBER, *American Society for Pharmacology and Experimental Therapeutics*
H. L. STEWART, C. C. ERICKSON, R. L. HOLMAN, *American Society for Experimental Pathology*
G. R. COWGILL, *Chairman*, Yale University, New Haven, Connecticut
M. O. LEE, *Federation Secretary*, 9650 Wisconsin Avenue, Washington 14, D. C.

COMMITTEES

Secretaries Committee—R. W. ENGEL, Nutrition, *Chairman*; F. S. CHEEVER, Immunology; A. C. BURTON, Physiology; PHILIP HANDLER, Biochemistry; C. C. PFEIFFER, Pharmacology; C. C. ERICKSON, Pathology.

Federation Finance Committee—G. R. COWGILL, *Chairman*; D. M. ANGEVINE, JULES FREUND, J. H. ROE, M. B. VISSCHER.

Federation Headquarters Committee—J. H. ROE, Nutrition (1956), *Chairman*; H. B. VICKERY, Biochemistry (1956), HARRY EAGLE, Immunology (1957), S. M. ROSENTHAL, Pharmacology (1957), L. N. KATZ, Physiology (1958), H. L. STEWART, Pathology (1958).

Public Information Committee—J. O. HUTCHENS, *Chairman*; R. W. WISSLER, R. J. WINZLER, ICIE M. HOOBLER, B. H. WAKSMAN, ALFRED GILMAN, SIMON RODBARD.

Exhibitors Advisory Committee to the Federation—W. H. SEALE, *Chairman*; C. R. ROESCH, JR., J. F. LUBBEN, R. H. ROBERTS, S. K. HERLITZ; and Members of the Secretaries Committee.

REPRESENTATIVES TO OTHER ORGANIZATIONS

To the Council of the American Association for the Advancement of Science—O. R. REYNOLDS (1957), W. P. ANSLOW, JR. (1955).

To the American Documentation Institute—M. O. LEE.

To the Scientific Manpower Commission—M. O. LEE (1956), H. P. SMITH (1957).

To the Future Scientists of America Foundation—M. O. LEE (1955), H. F. SMETANA (1957), E. F. ADOLPH (1958).

FORMER EXECUTIVE COMMITTEES

Philadelphia, Dec. 28–31, 1913

S. J. MELTZER, *Chairman*, and A. J. CARLSON, *Secretary*, The Physiological Society. A. B. MACALLUM and P. A. SHAFFER, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society.

St. Louis, Dec. 27–30, 1914

G. LUSK, *Chairman*, and P. A. SHAFFER, *Secretary*, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society. R. M. PEARCE and G. H. WHIPPLE, The Pathological Society. W. B. CANNON and A. J. CARLSON, The Physiological Society.

Boston, Dec. 26–29, 1915

TORALD SOLLMANN, *Chairman*, and JOHN AUER, *Secretary*, The Pharmacological Society. THEOBALD SMITH and PEYTON ROUS, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and P. A. SHAFFER, The Biochemical Society.

New York, Dec. 27–30, 1916

SIMON FLEXNER, *Chairman*, and PEYTON ROUS, *Secretary*, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and STANLEY R. BENEDICT, The Biochemical Society. REID HUNT and J AUER, The Pharmacological Society.

Minneapolis-Rochester, Dec. 27–29, 1917

FREDERIC S. LEE, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society.

CARL L. ALSBERG, and STANLEY R. BENEDICT, The Biochemical Society. REID HUNT and L. G. ROWNTREE, The Pharmacological Society. LUDVIG HEKTOEN and HOWARD T. KARSNER, The Pathological Society.

Baltimore, April 24–26, 1918

CARL L. ALSBERG, *Chairman*, and STANLEY R. BENEDICT, *Secretary*, The Biochemical Society. REID HUNT and E. D. BROWN, The Pharmacological Society. H. GIDEON WELLS and HOWARD T. KARSNER, The Pathological Society. FREDERIC S. LEE and CHARLES W. GREENE, The Physiological Society.

Cincinnati, Dec. 29–31, 1919

A. S. LOEVENHART, *Chairman*, and E. D. BROWN, *Secretary*, The Pharmacological Society. W. G. MACCALLUM and HOWARD T. KARSNER, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society.

Chicago, Dec. 28–30, 1920

WILLIAM H. PARK, *Chairman*, and HOWARD T. KARSNER, *Secretary*, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society. A. S. LOEVENHART and EDGAR D. BROWN, The Pharmacological Society.

New Haven, Dec. 28–30, 1921

J. J. MACLEOD, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society. D. D. VAN SLYKE and VICTOR C. MEYERS, The Biochemical Society. C. W. EDMUNDS and EDGAR D. BROWN, The Pharmacological Society. F. G. NOVY and WADE H. BROWN, The Pathological Society.

Toronto, Dec. 27–29, 1922

D. D. VAN SLYKE, *Chairman*, and VICTOR C. MYERS, *Secretary*, The Biochemical Society. C. W. EDMUNDS and EDGAR D. BROWN, The Pharmacological Society. HOWARD T. KARSNER and WADE H. BROWN, The Pathological Society. J. J. R. MACLEOD and CHARLES W. GREENE, The Physiological Society.

St. Louis, Dec. 27–29, 1923

C. W. EDMUNDS, *Chairman*, and EDGAR D. BROWN, *Secretary*, The Pharmacological Society. E. L. OPIE and WADE H. BROWN, The Pathological Society. A. J. CARLSON and CHARLES W. GREENE, The Physiological Society. PHILIP A. SHAFFER and VICTOR C. MYERS, The Biochemical Society.

Washington, Dec. 29–31, 1924

ALFRED S. WARTHIN, *Chairman*, and E. B. KRUMBHAAR, *Secretary*, The Pathological Society. A. J. CARLSON and WALTER J. MEEK, The Physiological Society. P. A. SHAFFER and D. WRIGHT WILSON, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society.

Cleveland, Dec. 28–30, 1925

A. J. CARLSON, *Chairman*, and WALTER J. MEEK, *Secretary*, The Physiological Society. H. C. SHERMAN and D. WRIGHT WILSON, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society. GEORGE H. WHIPPLE and E. B. KRUMBHAAR, The Pathological Society.

Rochester, N. Y., April 14–16, 1927

E. C. KENDALL, *Chairman*, and F. C. KOCH *Secretary*, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society. W. H. BROWN and E. B. KRUMBHAAR, The Pathological Society. J. ERLANGER and W. J. MEEK, The Physiological Society.

Ann Arbor, April 12–14, 1928

CARL VOEGTLIN, *Chairman*, and E. D. BROWN, *Secretary*, The Pharmacological Society. DAVID MARINE and CARL V. WELLER, The Pathological Society. JOSEPH ERLANGER and WALTER J. MEEK, The Physiological Society. E. V. MCCOLLUM and D. WRIGHT WILSON, The Biochemical Society.

Boston, Aug. 19–24, 1929

(The XIIIth International Physiological Congress)

EDWARD B. KRUMBHAAR, *Chairman*, and CARL V. WELLER, *Secretary*, The Pathological Society. JOSEPH ERLANGER and WALTER J. MEEK, The Physiological Society. E. V. MCCOLLUM and D. WRIGHT WILSON, The Biochemical Society. CARL VOEGTLIN and E. D. BROWN, The Pharmacological Society.

Chicago, March 26–29, 1930

WALTER J. MEEK, *Chairman*, and ALFRED C. REDFIELD, *Secretary*, The Physiological Society. W. R. BLOOR and HOWARD B. LEWIS, The Biochemical Society. CARL VOEGTLIN and E. D. BROWN, The Pharmacological Society. WILLIAM F. PETERSEN and CARL V. WELLER, The Pathological Society.

Montreal, April 8–11, 1931

W. R. Bloor, *Chairman*, and H. B. Lewis, *Secretary*, The Biochemical Society. George B. Wallace and E. D. Brown, The Pharmacological Society. Frederick L. Gates and C. Phillip Miller, The Pathological Society. Walter J. Meek and Arno S. Luckhardt, The Physiological Society.

Philadelphia, April 27–30 1932

George B. Wallace, *Chairman*, and V. E. Henderson, *Secretary*, The Pharmacological Society. Samuel R. Haythorn and C. Phillip Miller, The Pathological Society. Walter J. Meek and Arno B. Luckhardt, The Physiological Society. H. C. Bradley and Howard B. Lewis, The Biochemical Society.

Cincinnati, April 10–12, 1933

Peyton Rous, *Chairman*, and C. Phillip Miller, *Secretary*, The Pathological Society. Arno B. Luckhardt and Frank C. Mann, The Physiological Society. H. C. Bradley and Howard B. Lewis, The Biochemical Society. Wm. deB. MacNider and V. E. Henderson, The Pharmacological Society.

New York, March 28–31, 1934

Arno B. Luckhardt, *Chairman*, Frank C. Mann, *Secretary*, and Alexander Forbes, *Treasurer*, The Physiological Society. W. M. Clark and H. A. Mattill, The Biochemical Society. W. deB. MacNider and V. E. Henderson, The Pharmacological Society. Carl V. Weller and C. Phillip Miller, The Pathological Society.

Detroit, April 10–13, 1935

W. M. Clark, *Chairman*, H. A. Mattill, *Secretary*, and C. H. Fiske, *Treasurer*, The Biochemical Society. Charles W. Greene and Frank C. Mann, The Physiological Society. R. A. Hatcher and E. M. K. Geiling, The Pharmacological Society. S. Burt Wolbach and Shields Warren, The Pathological Society.

Washington, March 25–28, 1936

V. E. Henderson, *Chairman*, E. M. K. Geiling, *Secretary*, and C. M. Gruber, *Treasurer*, The Pharmacological Society. Frank C. Mann and Andrew C. Ivy, The Physiological Society. H. B. Lewis and H. A. Mattill, The Biochemical Society. Oskar Klotz and Shields Warren, The Pathological Society.

Memphis, April 21–24, 1937

Alphonse R. Dochez, *Chairman*, and Shields Warren, The Pathological Society. Frank C. Mann and Andrew C. Ivy, The Physiological Society. Howard B. Lewis and H. A. Mattill, The Biochemical Society. V. E. Henderson and E. M. K. Geiling, The Pharmacological Society. D. R. Hooker, *Secretary*.

Baltimore, March 30–April 2, 1938

William T. Porter, *Honorary President;* Walter E. Garrey, *Chairman*, and Andrew C. Ivy, The Physiological Society. Glenn E. Cullen and H. A. Mattill, The Biochemical Society. Arthur L. Tatum and G. Philip Grabfield, The Pharmacological Society. C. Phillip Miller and Paul R. Cannon, The Pathological Society. D. R. Hooker, *Secretary*.

Toronto, April 26–29, 1939

Glenn E. Cullen, *Chairman*, and Charles G. King, The Biochemical Society. Arthur L. Tatum and G. Philip Grabfield, The Pharmacological Society. C. Phillip Miller and Paul R. Cannon, The Pathological Society. Walter E. Garrey and Andrew C. Ivy, The Physiological Society. D. R. Hooker, *Secretary*.

New Orleans, March 13–16, 1940

E. M. K. Geiling, *Chairman*, and G. Philip Grabfield, The Pharmacological Society. Ernest W. Goodpasture and Paul R. Cannon, The Pathological Society. Andrew C. Ivy and Philip Bard, The Physiological Society. William C. Rose and Charles G. King, The Biochemical Society. D. R. Hooker, *Secretary*.

Chicago, April 15–19, 1941

Shields Warren, *Chairman*, and H. P. Smith, The Pathological Society. Thorne M. Carpenter and L. A. Maynard, The Institute of Nutrition. Andrew C. Ivy and Philip Bard, The Physiological Society. William C. Rose and Charles G. King, The Biochemical Society. E. M. K. Geiling and G. Philip Grabfield, The Pharmacological Society. D. R. Hooker, *Secretary*.

Boston, March 31–April 4, 1942

Albert G. Hogan, *Chairman*, and Arthur H. Smith, The Institute of Nutrition. Philip Bard and Carl J. Wiggers, The Physiological Society. Rudolph J. Anderson and Arnold K. Balls, The Biochemical Society. E. M. K. Geiling and R. N. Bieter, The Pharmacological Society. Jesse L. Bollman and H. P. Smith, The Pathological Society. Shields Warren, *Ex-Chairman*. D. R. Hooker, *Secretary*.

1943, 1944, 1945: The meetings scheduled for Cleveland were cancelled because of war conditions

PHILIP BARD, *Chairman*, and WALLACE O. FENN, The Physiological Society. E. A. DOISY and ARNOLD K. BALLS, The Biochemical Society. E. K. MARSHALL, JR. and RAYMOND N. BIETER, The Pharmacological Society. BALDUIN LUCKÉ and H. P. SMITH, The Pathological Society. LEONARD A. MAYNARD and ARTHUR H. SMITH, The Institute of Nutrition. JACQUES J. BRONFENBRENNER and ARTHUR F. COCA, The Association of Immunologists. D. R. HOOKER, *Secretary*.

Atlantic City, March 11–15, 1946

PHILIP BARD, *Chairman*; WALLACE O. FENN, The Physiological Society. A. BAIRD HASTINGS and ARNOLD K. BALLS, The Biochemical Society. ERWIN E. NELSON and RAYMOND N. BIETER, The Pharmacological Society. BALDUIN LUCKÉ and H. P. SMITH, The Pathological Society. WILLIAM C. ROSE and H. E. CARTER, The Institute of Nutrition. JACQUES J. BRONFENBRENNER and ARTHUR F. COCA, The Association of Immunologists. D. R. HOOKER, *Secretary*.

Chicago, May 18–22, 1947

A. BAIRD HASTINGS, *Chairman*, and OTTO A. BESSEY, The Biochemical Society. MAURICE H. SEEVERS and HARVEY B. HAAG, The Pharmacological Society. PAUL R. CANNON and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. ARTHUR H. SMITH and H. E. CARTER, The Institute of Nutrition. MICHAEL HEIDELBERGER and ARTHUR F. COCA, The Association of Immunologists. WALLACE O. FENN and MAURICE B. VISSCHER, The Physiological Society. WILLIAM H. CHAMBERS, *Secretary*.

Atlantic City, March 15–19, 1948

MAURICE H. SEEVERS, *Chairman*, and HARVEY B. HAAG, The Pharmacological Society. DOUGLAS H. SPRUNT and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. R. M. BETHKE and H. E. CARTER, The Institute of Nutrition. LLOYD D. FELTON and ARTHUR F. COCA, The Association of Immunologists. WALLACE O. FENN and MAURICE B. VISSCHER, The Physiological Society. HANS T. CLARKE and OTTO A. BESSEY, The Biochemical Society. WILLIAM H. CHAMBERS, *Secretary*.

Detroit, April 18–22, 1949

H. P. SMITH, *Chairman*, and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. E. M. NELSON and J. H. ROE, The Institute of Nutrition. MICHAEL HEIDELBERGER and JULES FREUND, The Association of Immunologists. MAURICE B. VISSCHER and D. B. DILL, The Physiological Society. HANS T. CLARKE and OTTO A. BESSEY, The Biochemical Society. CARL A. DRAGSTEDT and HARVEY B. HAAG, The Pharmacological Society. M. O. LEE, *Federation Secretary*.

Atlantic City, April 17–21, 1950

C. G. KING, *Chairman*, and J. H. ROE, The Institute of Nutrition. THOMAS FRANCIS, JR., and JULES FREUND, The Association of Immunologists. CARL J. WIGGERS and D. B. DILL, The Physiology Society. CARL F. CORI and RICHARD W. JACKSON, The Biochemistry Society. CARL F. SCHMIDT and H. B. HAAG, The Pharmacology Society. JOHN G. KIDD and SIDNEY C. MADDEN, The Pathology Society. M. O. LEE, *Federation Secretary*.

Cleveland, April 29–May 3, 1951

GEOFFREY EDSALL, *Chairman*, and JULES FREUND, The Association of Immunologists. D. B. DILL and R. W. GERARD, The Physiology Society. H. B. VICKERY and E. H. STOTZ, The Biochemistry Society. CARL F. SCHMIDT and H. B. HAAG, The Pharmacology Society. JAMES F. RINEHART and SIDNEY C. MADDEN, The Pathology Society. W. H. GRIFFITH and J. H. ROE, The Institute of Nutrition. M. O. LEE, *Federation Secretary*.

New York City, April 14–18, 1952

D. B. DILL, *Chairman*, H. E. ESSEX, R. W. GERARD, The Physiology Society. VINCENT DU VIGNEAUD, E. H. STOTZ, H. B. VICKERY, The Biochemistry Society. MCKEEN CATTELL, C. C. PFEIFFER, CARL F. SCHMIDT, The Pharmacology Society. F. S. ROBSCHEIT-ROBBINS, R. L. HOLMAN, J. F. RINEHART, The Pathology Society. C. M. MCCAY, JAMES M. ORTEN, W. H. GRIFFITH, The Institute of Nutrition. COLIN M. MACLEOD, JOHN Y. SUGG, GEOFFREY EDSALL, The Association of Immunologists. M. O. LEE, *Federation Secretary*.

FORMER FEDERATION BOARDS

Chicago, April 6–10, 1953

VINCENT DU VIGNEAUD, *Chairman;* H. A. MATTILL, D. W. WILSON, E. H. STOTZ, The Biochemistry Society. K. K. CHEN, C. C. PFEIFFER, MCKEEN CATTELL, The Pharmacology Society. S. C. MADDEN, R. L. HOLMAN, F. S. ROBSCHEIT-ROBBINS, The Pathology Society. P. L. DAY, J. M. ORTEN, C. M. MCCAY, The Institute of Nutrition. J. F. ENDERS, JOHN Y. SUGG, C. M. MACLEOD, The Association of Immunologists. E. M. LANDIS, E. F. ADOLPH, R. W. GERARD, The Physiology Society. M. O. LEE, *Federation Secretary*.

Atlantic City, April 11–16, 1954

K. K. Chen, *Chairman*; H. B. Haag, C. C. Pfeiffer, The Pharmacology Society. D. M. Angevine, C. C. Erickson, S. C. Madden, The Pathology Society. C. A. Elvehjem, J. M. Orten, P. L. Day, The Institute of Nutrition. T. P. Magill, J. Y. Sugg, J. F. Enders, The Association of Immunologists. E. F. Adolph, H. E. Essex, E. M. Landis, The Physiology Society. D. W. Wilson, Philip Handler, Vincent du Vigneaud, The Biochemistry Society. M. O. Lee, *Federation Secretary*.

San Francisco, April 11–15, 1955

D. M. Angevine, *Chairman*; R. L. Holman, C. C. Erickson, The Pathology Society. G. R. Cowgill, R. W. Engel, C. A. Elvehjem, The Institute of Nutrition. A. M. Pappenheimer, Jr., F. S. Cheever, T. P. Magill, The Association of Immunologists. H. E. Essex, W. F. Hamilton, E. F. Adolph, The Physiology Society. C. G. King, Philip Handler, D. W. Wilson, The Biochemistry Society. C. M. Gruber, C. C. Pfeiffer, H. B. Haag, The Pharmacology Society. M. O. Lee, *Federation Secretary*.

FEDERATION CONSTITUTION AND BYLAWS

Adopted at the New York City Meeting, April 17, 1952

CONSTITUTION

Article I. *Name*

The name of this organization is the Federation of American Societies for Experimental Biology.

Article II. *Purpose*

The purposes of the Federation are: to bring together investigators in biological and medical sciences represented by the member Societies; to disseminate information on the results of biological research through publications and scientific meetings; and to serve in other capacities in which the member Societies can function more efficiently as a group than as individual units.

Article III. *Membership*

Section 1. The constituent members of the Federation are, in order of seniority: The American Physiological Society; American Society of Biological Chemists, Inc.; American Society for Pharmacology and Experimental Therapeutics, Inc.; The American Society for Experimental Pathology; American Institute of Nutrition; The American Association of Immunologists.

Section 2. Other societies in the field of biological science may apply for membership, and may be admitted by unanimous consent of the Societies which are members at the time of application.

Section 3. Any constituent Society may withdraw from the Federation one year following written notification to the Federation Board of its intention.

Article IV. *Management*

The management of the Federation shall be vested in a Federation Board, on which each of the constituent Societies shall have equal membership. The Chairman of the Federation Board shall be furnished for a one-year term by each Society in its turn as determined by seniority in the Federation and shall be the immediate Past-President of that Society.

Article V. *Amendments*

Section 1. *Amendments*. Amendments to this Constitution may be proposed by any of the constituent Societies. If approved by a two-thirds majority of the Federation Board, the proposal shall then be referred to the constituent Societies. The amendment shall be adopted when approved by all of the constituent Societies.

Section 2. *Bylaws*. Bylaws may be adopted or amended by the Federation Board at any meeting of the Board by a vote in which at least two of the representatives from each member Society must concur.

BYLAWS

(Amended, 1954)

Article I. *The Federation Board*

Section 1. The Federation Board shall consist of the President, the Secretary and the immediate

Past-President of each of the constituent Societies. In the absence of a member of the Board, his place may be filled by a substitute designated by the appropriate Society. In the absence of the Chairman, the President of the senior Society for that year shall serve as chairman.

The Federation Board shall have the control and general management of the business affairs of the Federation. The Chairman shall have such powers and duties as are ordinarily exercised by the president of a corporation, including but not limited to the following: a) he shall preside at meetings of the Federation Board; b) he shall sign and execute all contracts, agreements and other legal documents in the name of the Federation upon authorization by the Federation Board.

SECTION 2. The Federation Board shall consider measures of advantage to the Federation. Any constituent Society may refer such measures to the Federation Board for consideration. In the interim between regular meetings of the Federation Board, such measures may be referred to all members of the Board by mail and the members may vote on such measures by mail ballot.

SECTION 3. The Federation Board may take such action, or may authorize the Chairman or the Federation Secretary to take such action, as is approved by at least two representatives of each Society. The actions of the Federation Board shall be reported to the annual business meetings of the member Societies. A quorum of the Federation Board shall consist of not less than twelve Board members, with each constituent Society represented by at least two of its representatives.

SECTION 4. The Federation Board shall appoint annually a Secretary-Treasurer, to be known as the Federation Secretary, who may present matters to the Federation Board for decision but who shall not be entitled to vote.

SECTION 5. The Federation Board shall control all monies of the Federation, determine the annual Federation assessment per member of the constituent Societies, set the subscription rates for Federation publications and the fees of the Placement Service, and appropriate monies for use of its authorized committees and the Federation Secretary. The assessment shall be applied to each Society as of July 1 of each year and shall be due the Federation on that date.

SECTION 6. The Federation Board shall determine times and places of annual meetings of the Federation upon recommendations of the Federation Secretary.

ARTICLE II. *Federation Secretary*

The Federation Secretary shall act as secretary to the Federation Board and be responsible for all Federation records; he shall act as treasurer for the Federation and submit audited financial statements to the Federation Board at the annual meeting; he shall be responsible for making the arrangements for the annual meeting of the Federation; he shall act as managing editor of the publications of the Federation; he shall supervise the Federation's Placement Service and make an annual report on its activity to the Federation Board; and he shall perform such other duties as prescribed by the Federation Board and which do not conflict with the Constitutions and Bylaws of the constituent Societies.

ARTICLE III. *Committees and Representatives*

SECTION 1. The Federation Board shall establish such committees and designate such representatives as desired and receive their reports. The Chairman of the Federation Board shall appoint, with the advice of the Board, the individual committee members and representatives, unless otherwise specified by the Board.

SECTION 2. A Public Information Committee shall be a standing committee of the Federation.

SECTION 3. A Secretaries Committee, composed of the Secretaries of the constituent Societies, shall be a standing committee of the Federation. The Chairman of this Committee shall be the Secretary of the senior Society for the year. This Committee shall be responsible for arranging the program of the annual meeting and for setting the registration fee for this meeting, shall act as an editorial board for Federation publications and shall perform such other functions in connection with the annual meeting as prescribed by the Federation Board.

SECTION 4. The Secretaries Committee shall meet during the winter, and a meeting of the entire Federation Board may be associated with this meeting.

ARTICLE IV. *Meetings*

SECTION 1. The Federation shall hold an annual meeting for presentation of papers at the scientific sessions of the constituent Societies or at general sessions of the Federation and for transaction of business.

SECTION 2. Abstracts of papers to be read at an annual meeting of the Federation must be submitted to the Secretary of the Society of which the proposer of the paper is a member, and such proposer must be either an author of the paper or introduce the author(s). No person may present orally more than one paper at the Federation meeting except at the invitation of the Secretary of an individual Society. The oral presentation of any paper shall be by the first named author, except by permission of the Secretary of the Society concerned.

SECTION 3. Each Society shall have the responsibility for selecting and arranging its scientific program and for setting its specific regulations, provided these are not in conflict with the general regulations under Section 2. The authors of the paper may request its transfer to the program of another Society, but this may be done only with the consent of the Secretaries of the two Societies concerned. Secretaries on their own initiative may transfer papers from the program of one Society to that of another. Transfers shall be indicated in the program.

SECTION 4. The abstracts of papers read at scientific sessions of all constituent Societies at the annual meeting shall be published in the FEDERATION PROCEEDINGS. Rules regarding the form and length of the abstracts shall be set by the Secretaries Committee and shall be circulated at least six weeks prior to the date set for receipt of the abstracts.

ARTICLE V. *Publications*

The official publications of the Federation shall be FEDERATION PROCEEDINGS and such other publications as the Federation Board may authorize. FEDERATION PROCEEDINGS shall be owned by the Federation and published under the supervision of the Managing Editor and the Secretaries Committee. Normally, a March issue, in two parts, shall contain the abstracts of papers and the program for the annual meeting. A December issue shall contain the annual list of the members of the Societies and other pertinent information. Two other issues shall contain papers from the Joint Session, symposia and such other material as may be selected by the Secretaries Committee.

ARTICLE VI. *Placement Service*

The Federation shall maintain a Placement Service the function of which shall be to assist in the placing of professional personnel in suitable positions.

ARTICLE VII. *Seal*

The seal of this Federation shall be circular in form with the name of the Federation around the outer edge and in the center the words, "Incorporated in the District of Columbia January 19, 1954."

PLACEMENT SERVICE

The Federation maintains a service to act as a medium of communication between persons seeking positions for teaching or research and institutions that wish to fill vacancies in these sciences.

The Service does not undertake to recommend or to pass judgment upon applicants. It aims merely to serve as a clearing-house for such information as above stated and to bring into touch with one another candidates for positions and employers. It publishes quarterly lists of applicants in February, May, August and November, semiannual lists of available positions in March and September and a list of fellowships and assistantships in October.

Individuals, whether members of the Federation or not, universities, other institutions and organizations desiring to avail themselves of the Service may receive such information as is available.

By action of the Executive Committee in 1954 the following charges were authorized:

Annual applicant registration fee	$ 3
Annual subscription to all lists of the Service	$15
Single copy of list of candidates	$10
Single copy of available positions	$ 5
Single copy of fellowship list	$ 2

A single copy of the fellowship list will be sent without cost to any member of a constituent Society upon written request.

To be eligible to use the arrangements for interviews at the annual meeting an employer must be an annual subscriber or a subscriber to the then current February list of applicants.

All communications should be addressed to: Federation Placement Service, 9650 Wisconsin Ave., Washington 14, D. C.

THE AMERICAN PHYSIOLOGICAL SOCIETY

Founded December 30, 1887; Incorporated June 2, 1923

OFFICERS, 1955–1956

President—W. F. HAMILTON, Medical College of Georgia, Augusta.

President-Elect (Secretary-Treasurer)—A. C. BURTON, University of Western Ontario Medical School, London, Ontario, Canada.

Past-President—H. E. ESSEX, Mayo Clinic, Rochester, Minn.

Council—W. F. HAMILTON, A. C. BURTON, H. E. ESSEX, F. A. HITCHCOCK (1956), H. W. DAVENPORT (1957), L. N. KATZ (1958), R. F. PITTS (1959).

Executive Secretary—M. O. LEE, 9650 Wisconsin Avenue, Washington 14, D. C.

STANDING COMMITTEES

Membership Advisory—R. F. PITTS (1956), *Chairman*; A. W. MARTIN, JR. (1956), C. E. HALL (1956), S. M. HORVATH (1957), ALEXANDER SANDOW (1957).

Educational Matters—E. F. ADOLPH (1957), *Chairman*; J. H. COMROE, JR. (1956), W. R. AMBERSON (1958), C. L. PROSSER (1959).

Use and Care of Animals—H. E. ESSEX (1956), *Chairman*; W. F. HAMILTON (1958), H. W. DAVENPORT (1959).

Placement of Senior Physiologists—D. B. DILL.

Porter Fellowship—H. W. DAVENPORT (1956), *Chairman*; J. R. PAPPENHEIMER (1957), H. S. MAYERSON (1958).

Program Advisory Committee—L. N. KATZ (1960), *Chairman*; W. S. FOWLER (1956), T. C. RUCH (1957), L. M. N. BACH (1958), J. M. TOBIAS (1959).

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science—DAVID RAPPORT (1956), F. A. HITCHCOCK (1957).

American Documentation Institute—WILLIAMINA A. HIMWICH (1958).

American Institute of Biological Sciences—W. O. FENN (1956).

Council for Coordination of International Congresses—M. B. VISSCHER.

Council of International Organizations in Medical Sciences—M. B. VISSCHER.

International Union of Physiological Sciences—M. B. VISSCHER (1959), *Chairman*; W. F. HAMILTON (1956), C. F. SCHMIDT (1956), F. O. SCHMITT (1957), C. H. BEST (1958).

A.P.S. Members of the United States National Committee for the International Union of Physiological Sciences—M. B. VISSCHER, R. W. GERARD, W. O. FENN, E. M. LANDIS (alternate).

National Research Council—D. B. DILL, Division of Biology and Agriculture (1958); R. W. GERARD, Division of Medical Sciences (1958).

Council on Medical Education and Hospitals, A.M.A.—L. N. KATZ (1958).

Editorial Boards

Board of Publication Trustees—M. B. VISSCHER (1956), *Chairman*; HALLOWELL DAVIS (1957), H. E. ESSEX (1958).

Managing Editor—M. O. LEE.

American Journal of Physiology and Journal of Applied Physiology—H. A. BLAIR (1956), A. C. BURTON (1957), W. H. CHAMBERS (1957), R. G. DAGGS (1956), A. P. GAGGE (1956), A. GILMAN (1956), A. GRAYBIEL (1956), M. I. GREGERSEN (1957), D. J. INGLE (1956), L. N. KATZ (1957), ANCEL KEYS (1957), D. P. C. LLOYD (1956), M. F. MORALES (1958), GREGORY PINCUS (1958), HERMANN RAHN (1956), T. C. RUCH (1958), E. E. SELKURT (1957), J. E. THOMAS (1957), L. M. TOCANTINS (1957), E. H. WOOD (1957), H. L. WHITE (1957).

Physiological Reviews—H. J. CURTIS (1956), *Chairman*; HENRY BARCROFT (1957), C. F. CODE (1957), A. F. COURNAND (1956), J. C. ECCLES (1955), GEORG KAHLSON (1957), S. S. KETY (1958), H. S. MAYERSON (1957), ARTURO ROSENBLUETH (1958), GEORGE SAYERS (1957), R. H. S. THOMPSON (1958), C. N. WOOLSEY (1957). *Appointee of the Society of General Physiologists*: F. A. BROWN, JR. (1957); *Appointees of the Society of Biological Chemists*: A. L. LEHNINGER (1957), DAVID SHEMIN (1957).

Annual Review of Physiology—J. P. BAUMBERGER (1957), *Chairman*; JOHN FIELD II (1957), H. W. MAGOUN (1957), G. K. MOE (1957), H. D. GREEN (1958).

PAST OFFICERS

Presidents—**1887** S. WEIR MITCHELL. **1888** H. P. BOWDITCH. **1889–1890** S. WEIR MITCHELL. **1891–1895** H. P. BOWDITCH. **1896–1904** R. H. CHITTENDEN. **1905–1910** W. H. HOWELL. **1911–1913** S. J. MELTZER. **1914–1916** W. B. CANNON. **1917–1918** F. S. LEE. **1919–1920** W. P. LOMBARD. **1921–1922** J. J. R. MACLEOD. **1923–1925** A. J. CARLSON. **1926–1928** J. ERLANGER. **1929–1931** W. J. MEEK. **1932–1933** A. B. LUCKHARDT. **1934** CHARLES W.

GREENE. **1935–1936** F. C. MANN. **1937–1938** W. E. GARREY. **1938** W. T. PORTER, *Honorary President*. **1939–1940** A. C. IVY. **1941–1945** P. BARD. **1946–1947** W. O. FENN. **1948** M. B. VISSCHER. **1949** C. J. WIGGERS. **1950** H. C. BAZETT (April to July); D. B. DILL. **1951** R. W. GERARD. **1952** E. M. LANDIS. **1953** E. F. ADOLPH. **1954** H. E. ESSEX.

Secretaries—**1887–1892** H. N. MARTIN. **1893–1894** W. P. LOMBARD. **1895–1903** F. S. LEE. **1904** W. T. PORTER. **1905–1907** L. B. MENDEL. **1908–1909** R. HUNT. **1910–1914** A. J. CARLSON. **1915–1923** C. W. GREENE. **1924–1928** W. J. MEEK. **1929** A. C. REDFIELD. **1930–1931** A. B. LUCKHARDT. **1932–1934** F. C. MANN. **1935–1938** A. C. IVY. **1939–1940** PHILIP BARD. **1940** C. J. WIGGERS. **1942–1945** W. O. FENN. **1946–1947** M. B. VISSCHER.

Treasurers—**1888–1892** H. N. MARTIN. **1893–1894** W. P. LOMBARD. **1895–1903** F. S. LEE. **1904** W. T. PORTER. **1905–1912** W. B. CANNON. **1913–1923** J. ERLANGER. **1924–1925** C. K. DRINKER. **1926–1935** ALEXANDER FORBES. **1936–1939** W. O. FENN. **1940** C. J. WIGGERS. **1941–1945** HALLOWELL DAVIS. **1946–1947** D. B. DILL.

Executive Secretary—**1948–** M. O. LEE.

CONSTITUTION AND BYLAWS

Adopted at the 1953 Spring Meeting

CONSTITUTION

ARTICLE I. *Name*

The name of this organization is THE AMERICAN PHYSIOLOGICAL SOCIETY.

ARTICLE II. *Purpose*

The purpose of the Society is to promote the increase of physiological knowledge and its utilization.

BYLAWS

(Amended April 1955)

ARTICLE I. *Membership*

SECTION 1. The Society shall consist of members and honorary members.

SECTION 2. *Members*. Any person who has conducted and published meritorious original research in physiology and who is a resident of North America shall be eligible for proposal to membership in the Society.

SECTION 3. *Honorary Members*. Distinguished scientists of any country who have contributed to the advance of physiology shall be eligible for proposal as honorary members of the Society.

ARTICLE II. *Officers*

SECTION 1. The management of the Society shall be vested in a Council consisting of the President, the President-Elect, the Past-President for the previous year, and four other members. The terms of the President and of the President-Elect shall be one year. The terms of the four additional Councilors shall be four years each and they shall not be eligible for immediate reelection except those who have served for two years or less in filling interim vacancies. A person may serve only one term as President, except that if the President-Elect becomes President after September 30 he shall continue as President for the year beginning the next July 1st.

SECTION 2. Nomination and election of a President-Elect and Councilor(s) shall be by ballot at the Spring meeting of the Society. They shall assume office on July 1 following their election.

SECTION 3. The President-Elect shall serve as Vice-President and Secretary. Should he have to function as President prematurely, the Council shall select from among its own members a Secretary.

SECTION 4. The Council shall be empowered to appoint and compensate an Executive Secretary-Treasurer who shall assist it in carrying on the functions of the Society, including the receipt and disbursement of funds under the direction of the Council.

SECTION 5. The Council may fill any interim vacancies in its membership or vacancies on any Board or Committee of the Society, unless otherwise provided.

ARTICLE III. *Dues*

SECTION 1. The annual assessment on members shall be determined by the Council and shall be due in advance on July 1.

SECTION 2. A member whose dues are two years in arrears shall cease to be a member of the Society, unless after payment of his dues in arrears and application to the Council, he shall be reinstated at the next Spring meeting by special vote of the Council. It shall be the duty of the Secretary to notify the delinquent of his right to request reinstatement.

SECTION 3. A member who has retired from employment because of illness or age may, upon application to the Council, be relieved from the payment of the annual member assessment.

ARTICLE IV. *Meetings*

SECTION 1. A meeting of the Society for transacting business, electing officers and members, presenting communications, and related activities, shall be held in the Spring of each year, with other member Societies of the Federation of American Societies for Experimental Biology, except that under exceptional circumstances the Council may cancel such a meeting.

SECTION 2. A Fall meeting of the Society shall be held at a time and place determined by the Council, for presenting communications and for transacting business except the election of officers.

SECTION 3. Special meetings of the Society or of the Council may be held at such times and places as the Council may determine.

SECTION 4. Regional meetings of the Society, for the purpose of presenting scientific communications, may be authorized by the Council.

ARTICLE V. *Publications*

SECTION 1. The official organs of the Society shall be the *American Journal of Physiology*, the *Journal of Applied Physiology*, *Physiological Reviews* and such other publications as the Society may own.

SECTION 2. A Board of Publication Trustees, composed of three members of the Society and appointed by the Council, shall be vested with the full power of the Society to control and manage, both editorially and financially, all of the publications of the Society; to appoint editorial boards; to appoint and compensate a Managing Editor; and to control all publication funds, none of which, however, may be diverted from support of the publications of the Society except by consent of the Council. The term of each member of the Board shall be three years; a member may not serve more than two consecutive terms. The Council shall designate the Chairman of the Board, and shall receive an annual report on the finances, publications and policies. A summary of this report shall be presented to the Society at the Spring meeting.

The Chairman of the Board of Publication Trustees shall be a member ex-officio of the Council but shall have no vote.

ARTICLE VI. *Committees and Representatives*

The Council may appoint such special and standing committees as it deems necessary or that are voted by the Society.

The Council may name members of the Society as representatives to other organizations whenever it deems such action desirable.

ARTICLE VII. *Standing Rules*

1. *Election to Membership.* Two members of the Society must join in proposing a person for membership, in writing and with a statement of his qualifications. The Council may, from the persons so proposed, nominate candidates for election to membership. Nominations shall be presented at Spring and Fall meetings; a two-thirds majority vote of the members present and voting at the next following Fall or Spring meeting shall be necessary for election.

If a Spring or Fall meeting of the Society is not held, the procedures of nomination and/or election of new members may be effected by mail.

The names of the candidates nominated by the Council for membership and statements of their qualifications signed by their proposers shall be available for inspection by members during the Society meetings at which their election is considered.

2. *Election to Honorary Membership.* The proposal of an honorary member shall be made by two members of the Society to the Council in writing. The Council may, from the candidates so proposed, make nominations to the Society at a Spring meeting. A two-thirds majority vote of the members present shall be necessary for election.

Honorary members shall have the privilege of attending business sessions of the Society but shall have no vote. They shall pay no membership fees.

3. *Presentation of Papers.* At a Spring meeting of the Society a member or honorary member may present orally or by title, be co-author of, or introduce not more than one scientific paper on the program, except upon invitation of the Council. At a Fall meeting a member or honorary member may present orally not more than one paper, except upon invitation of the Council.

Upon invitation by the Council, a member may contribute papers to specially designated sessions of the Society without forfeit of his privilege of presenting a regular scientific communication.

4. There shall be a Committee on Membership appointed by and advisory to the Council.

5. There shall be a Program Advisory Committee appointed by the Council.

ARTICLE VIII. *General*

SECTION 1. *Amendments.* These Bylaws, except Article VII, may be amended at any Spring meeting of the Society by a three-fourths majority vote of the members present.

The Standing Rules of Article VII may be amended by a majority vote of the members present at either a Spring or Fall meeting of the Society.

SECTION 2. *Quorum.* At all business meetings of the Society fifty members shall constitute a quorum.

SECTION 3. *Parliamentary Authority.* The rules contained in *Roberts Rules of Order* shall govern the conduct of the business meetings of the Society in all cases to which they are applicable and in which they are not inconsistent with the Bylaws or special rules of order of the Society.

AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS

Founded December 6, 1906; Incorporated September 12, 1919

OFFICERS, 1955-1956

President—J. Murray Luck, Stanford University, Stanford, Calif.

President-Elect—Herbert E. Carter, University of Illinois, Urbana.

Secretary—Philip Handler, Duke University School of Medicine, Durham, N. C.

Treasurer—P. P. Cohen, University of Wisconsin, Madison.

Council—J. M. Luck, H. E. Carter, C. G. King, P. Handler, P. P. Cohen, V. du Vigneaud (1953-56), E. E. Snell (1954-57), H. T. Clarke (1955-58).

STANDING COMMITTEES

Nominating Committee—F. Lipmann (1954-55, 1955-56) *Chairman*; H. A. Barker (1955-56), S. P. Colowick (1955-56), E. A. Doisy, Sr. (1955-56), J. S. Fruton (1954-55, 1955-56), I. C. Gunsalus (1955-56), E. L. Smith (1955-56), E. L. Tatum (1955-56), B. Vennesland (1955-56).

Editorial Committee—C. A. Elvehjem (1953-59) *Chairman*; H. A. Barker (1954-57), V. H. Cheldelin (1953-59), W. M. Clark (1953-59), E. A. Evans, Jr. (1954-57), A. Kornberg (1955-61), L. C. Norris (1951-57), W. H. Stein (1955-61), H. G. Wood (1955-61).

Finance Committee—E. A. Evans, Jr. (1951-56) *Chairman*; R. J. Anderson (1951-), P. P. Cohen (1951-56), C. A. Elvehjem (1955-56), J. M. Luck (1955-56).

Historian—P. A. Shaffer.

Legal Counselor—A. S. Davis.

Editorial Board, Journal of Biological Chemistry

R. J. Anderson (1930-) *Managing Editor*, (1935-); H. B. Vickery (1941-) *Assoc. Managing Editor* (1954-59); R. M. Archibald (1953-58), E. G. Ball (1950-55, 1955-60), A. K. Balls (1951-56), K. Bloch (1951-56), G. B. Brown (1954-59), H. E. Carter (1950-55, 1955-60), W. E. Cohn (1955-60), C. F. Cori (1941-), E. A. Doisy (1938-), V. du Vigneaud (1953-58), J. T. Edsall (1954-59), J. S. Fruton (1953-58), W. H. Griffith (1949-54, 1954-59), S. Gurin (1951-56), A. B. Hastings (1941-54, 1954-59), L. Hellerman (1951-56), A. L. Lehninger (1954-59), S. Moore (1950-55, 1955-60), H. Neurath (1954-59), S. Ochoa (1950-55, 1955-60), E. E. Snell (1949-59), W. M. Sperry (1949-59), D. Stetten, Jr. (1954-59), E. L. Tatum (1953-58), O. Wintersteiner (1951-56).

SPECIAL COMMITTEES

Membership Committee—S. Gurin (1953-56) *Chairman*; R. H. Burris (1954-57), E. Chargaff (1955-58), L. C. Craig (1954-56), D. M. Greenberg (1955-58), O. H. Lowry (1954-57).

Program Committee, 1953-56—E. H. Stotz, *Chairman*; A. L. Dounce, L. L. Miller, W. W. Westerfeld, H. H. Williams, R. F. Witter.

Revision of Bylaws, 1952-56—E. H. Stotz, *Chairman*; A. K. Balls, H. B. Vickery.

Clinical Chemistry, 1954-56—Robert Hill, *Chairman*; R. M. Archibald, W. J. Darby, M. F. Mason, A. J. Quick.

Biochemical Nomenclature (Joint with American Institute of Nutrition)—J. S. Fruton, E. E. Snell.

Ad Hoc Committee on the 50th Anniversary—D. D. Van Slyke, *Chairman*; R. J. Anderson, W. R. Bloor, H. C. Bradley, W. M. Clark, E. C. Kendall, E. V. McCollum, W. C. Rose, P. A. Shaffer, D. W. Wilson.

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science (1941-)—H. E. Carter (1954-56), H. J. Deuel, Jr. (1954-56).

National Committee on Biochemistry (1953-)—V. du Vigneaud (1953-56), *Chairman;* C. G. King (1953-56), W. M. Stanley (1953-55, 1955-58), E. H. Stotz (1953-54; 1954-57).

National Research Council—A. K. Balls, Division of Biology and Agriculture (1952-58). J. D. Ferry, Division of Chemistry and Chemical Technology (1955-58); *Subcommittee on Biochemistry*: H. E. Carter (1953-56), *Chairman*, C. V. Smythe (1954-57), J. T. Edsall (1953-58). P. P. Cohen, Division of Medical Sciences (1953-56).

Representatives to the International Union of Biochemistry (1949-)—S. Ochoa (1953-56), E. H. Stotz (1955-56).

Committee on Organic Nomenclature, A. C. S.—H. S. Loring.

Editorial Board, Physiological Reviews—A. L. Lehninger, D. Shemin.

PAST OFFICERS

Presidents—**1907** Russell H. Chittenden. **1908** John J. Abel. **1909** Otto Folin. **1910** Thomas B. Osborne. **1911** Lafayette B. Mendel. **1912-1913** Archibald B. Macallum. **1914** Graham Lusk. **1915-1916** Walter Jones. **1917-1918** Carl L. Alsberg. **1919-1920** Stanley R. Benedict. **1921-1922**

D. D. Van Slyke. 1923–1924 Philip A. Shaffer. 1925 Henry C. Sherman. 1926 Edward C. Kendall. 1927–1928 E. V. McCollum. 1929–1930 W. R. Bloor. 1931–1932 H. C. Bradley. 1933–1934 W. M. Clark. 1935–1936 H. B. Lewis. 1937–1938 G. E. Cullen. 1939–1940 William C. Rose. 1941–1942 R. J. Anderson. 1943–1944 E. A. Doisy. 1945–1946 A. B. Hastings. 1947–1948 Hans T. Clarke. 1949 Carl F. Cori. 1950 H. B. Vickery. 1951 V. du Vigneaud. 1952 H. A. Mattill. 1953 D. W. Wilson. 1954 Charles Glen King.

Vice-Presidents—1907 J. J. Abel. 1908 Otto Folin. 1909 T. B. Osborne. 1910 L. B. Mendel. 1911 A. B. Macallum. 1912–1913 Graham Lusk. 1914–1915 C. L. Alsberg. 1916 F. P. Underhill. 1917–1918 A. P. Mathews. 1919–1920 D. D. Van Slyke. 1921–1922 P. A. Shaffer. 1923–1924 Henry C. Sherman. 1925 E. C. Kendall. 1926 E. V. McCollum. 1927–1928 W. R. Bloor. 1929–1930 H. C. Bradley. 1931–1932 W. M. Clark. 1933–1934 H. B. Lewis. 1935–1936 G. E. Cullen. 1937–1938 W. C. Rose. 1939–1940 R. J. Anderson. 1941–1942 E. A. Doisy. 1943–1944 A. B. Hastings. 1945–1946 H. T. Clarke. 1947–1948 C. F. Cori. 1949 H. B. Vickery. 1950 V. du Vigneaud. 1951 H. A. Mattill. 1952 D. W. Wilson. 1953 C. G. King. 1954 J. Murray Luck.

Secretaries—1907–1909 W. J. Gies. 1910–1912 A. N. Richards. 1913–1915 P. M. Shaffer. 1916–1918 S. R. Benedict. 1919–1923 V. C. Myers. 1924–1925 D. W. Wilson. 1926 Fred C. Koch. 1927–1928 D. W. Wilson. 1929–1932 H. B. Lewis. 1933–1937 H. A. Mattill. 1938–1940 C. G. King. 1941–1945 A. K. Balls. 1946–1948 Otto A. Bessey. 1949 R. W. Jackson. 1950–1953 E. H. Stotz. 1953– P. Handler.

Treasurers—1907–1909 L. B. Mendel. 1910–1912 Walter Jones. 1913–1916 D. D. Van Slyke. 1917–1921 H. C. Bradley. 1922–1925 W. R. Bloor. 1926–1930 G. E. Cullen. 1931–1935 C. H. Fiske. 1936–1940 A. B. Hastings. 1941–1945 W. C. Stadie. 1946–1950 E. A. Evans, Jr. 1951– P. P. Cohen.

CONSTITUTION

From the Articles of Incorporation

1. The name of the proposed corporation is "American Society of Biological Chemists, Incorporated."

2. The purposes for which this corporation is formed are to further the extension of biochemical knowledge and to facilitate personal intercourse between American investigators in biological chemistry.

BY-LAWS

(as revised, 1954)

Article I. *Membership*

Section 1. *Eligibility for Membership.* Qualified investigators who have conducted and published meritorious original investigations in biological chemistry shall be eligible for membership in the Society

Section 2. *Nomination.* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

Section 3. *Election to Membership.* A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has declared the nominee to be eligible and indorsed. A majority of the ballots cast shall elect.

Section 4. *Forfeiture.* A. Any member who grants the use of his name for the advertisement or for the promotion of the sale of a product to be used for medicine or for food, this product not being one of demonstrated usefulness or value, or who shall act in a manner that is not in the public interest, shall forfeit his membership.

B. The Council shall have authority to announce forfeiture of membership provided that a copy of the charges, together with a written notice of a hearing thereon with time and place specified, shall have been delivered at least thirty days before the date of such hearing to the member charged with the violation.

Section 5. *Expulsion.* Upon recommendation of the Council any member may be expelled by a majority vote of the members present at a Business Meeting of the Society, provided that a copy of the charges together with a written notice of a hearing with time and place specified, shall have been delivered to the member at least thirty days before the date of such hearing.

Article II. *Meetings and Quorum*

Section 1. *Annual.* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

Section 2. *Special.* A special meeting may be called at any time by the President, or in case of his absence or disability by the President-Elect, and must be called at the request of a majority of the Council or fifty members of the Society. A notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which all meetings shall be held.

Section 3. *Quorum.* Fifty members shall constitute a quorum at all meetings of the Society, but in the absence of a quorum any number shall be sufficient to adjourn to a fixed date.

Article III. *Officials*

Section 1. *Officers.* The officers shall be a President, a President-Elect, a Secretary, and a Treas-

urer, who shall be elected annually by the members of the Society.

SECTION 2. *Council* A. The Officers so elected, the immediate Past-President, and three additional members, one of whom shall be elected at each annual meeting of the Society to serve a three year term, shall constitute the Board of Directors of the corporation and shall be known as "The Council."

B. No two members of the Council may be from the same institution, and none of the members shall be eligible for re-election until after the lapse of one year, except the Secretary and Treasurer who shall each be eligible for re-election for five successive years.

SECTION 3. *Duties of Officers*. The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions. The President-Elect shall act as President in case of the inability of the President to serve.

ARTICLE IV. *The Council*

SECTION 1. *Powers*. The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and shall possess all of the powers conferred upon the Board of Directors of a membership corporation by the Membership Corporation Law of the State of New York.

SECTION 2. *Reports*. The Council shall report to the Society as promptly as possible its findings on the eligibility of candidates for membership and on all charges of a violation of these By-Laws.

ARTICLE V. *Nominations and Elections*

SECTION 1. *Nominating Committee*. A. The Nominating Committee shall consist of nine members from nine different institutions. Members who have served for two consecutive years shall be ineligible for re-election until after the lapse of one year. The members shall be elected at each annual meeting from a slate provided by the incumbent Nominating Committee, this slate to contain the names of at least fifteen Society members, each from a different institution, provided that this slate contain not more than five names of members of the incumbent Nominating Committee and further provided that to this slate there shall be added the name of any Society member received by the Secretary and supported by the petition of twenty or more Society members.

B. The nine nominees from different institutions who receive the highest number of votes on the official ballot shall be declared elected to the Nominating Committee, the one receiving the most votes being declared its Chairman and Secretary. Tie votes for the position of Chairman, or for the person in the ninth position in the report of the Tellers, shall be resolved by a vote cast by the President. The name of the person in tenth position shall be held as an alternate to serve in the event of the disability of one of the elected members other than the Chairman. In the event of the disability of the Chairman, the newly elected Nominating Committee shall elect its Chairman from among its own members including the alternate.

SECTION 2. *Nominations*. A. The Nominating Committee shall make not less than *two* nominations for the offices of the President-Elect and *two* for the position of Councilor, and at least one nomination for each of the remaining offices. In addition the Nominating Committee shall provide a slate of at least fifteen names of members of the Society selected as specified in Article V, Section 1 A, who shall be candidates for positions of the Nominating Committee of the following year. Furthermore, the Nominating Committee in each alternate year shall make not less than three nominations for positions on the Editorial Committee in accordance with the provisions of Article VII, Section 1 of these By-Laws. The names of nominees for each office shall be listed alphabetically on the ballot.

B. The nominations by the Nominating Committee must be transmitted to the Secretary at least two months before the annual meeting at which they are to be considered.

C. The Secretary shall prepare and send to every member, at least three weeks before the annual meeting, a printed ballot which shows the nominations of the Nominating Committee for the several offices and positions together with such other properly supported independent nominations for the Nominating Committee as may have been submitted by petition and received by him.

D. Nominations for membership on the Nominating Committee may be made by any member of the Society in the form of a petition addressed to the Secretary and to be received by him at least two months before the annual meeting. Such petitions must be supported by the signatures of not less than twenty members of the Society either attached to the petition or to accompanying documents.

SECTION 3. *Elections*. A. The members of the Society shall individually vote on the printed ballots presented to them by the Secretary and shall return them in signed envelopes to the Secretary not later than the hour set for the opening of the first executive session of the Annual Meeting.

B. At the time during the annual meeting that the election shall have been declared closed by the President, the Secretary shall present to the

Tellers, appointed by the President to take charge of the election, all signed ballots received by him.

C. All elective positions shall be filled by ballot according to a report presented by the Tellers at an executive session of the annual meeting.

D. A *plurality* of the votes cast shall be necessary to elect, and in case of a tie vote the President shall cast the deciding ballot.

E. Elected officers shall take office on July 1st following the annual meeting.

SECTION 4. *Filling of Vacancies.* A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society. Any vacancy which occurs at a meeting shall be filled temporarily by vote of the Council.

B. The President of the Society shall fill all vacancies in appointive positions.

ARTICLE VI. *Financial*

SECTION 1. *Dues.* Annual assessments shall be determined by majority vote at the annual meetings, upon the recommendation of the Council. Members who have reached the age of 65 years, or who have become incapacitated, may request the consideration of the Council for exemption from payment of Society dues.

SECTION 2. *Expenditures.* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council or of its Finance Committee. Expenditures from any special funds which have accrued from taxation of the membership or otherwise shall require either the vote of the Council or of a Committee designated by the Council.

SECTION 3. *Privileges of Membership Begin with Payment of Dues.* Newly elected members are entitled to the privileges of membership only after payment of the dues following their election. Such dues shall be paid on or before July 1 of each year.

SECTION 4. *Penalty for Non-Payment of Dues.* A member who has not paid dues within a period of one year after billing shall, upon being billed for the succeeding year, be notified of forfeiture of membership unless all indebtedness to the Society is met within 60 days. Reinstatement shall require the request of the delinquent member, approval by the Council, and liquidation of all indebtedness.

SECTION 5. *Herter Fund.* A. *Use.* The "Christian A. Herter Memorial Fund" shall be held and invested separately from the general funds of the Society, in accordance with the terms of the agreement dated May 16, 1911, executed by the Journal of Biological Chemistry and the donors of said fund. The income thereof shall be expended under the direction of the Editorial Board exclusively for the maintenance and support of the Journal of Biological Chemistry subject to the supervision and control of the Finance Committee of the Council in accordance with the Trust Agreement.

B. *Trust Agreement.* The Council may from time to time make Agreement with a Trust Company which shall then serve as the depositary of the investments and income of the "Christian A. Herter Memorial Fund" hereinafter called the Herter Fund and of such other funds as the Society may from time to time commit to its charge. The Trust Company shall have and exercise the following powers and duties, viz., the custody and safekeeping of securities and cash belonging to the Herter Fund and other funds and the collection of income and other moneys due, with power to receipt for the same and to endorse for deposit all checks payable to the Society or the Treasurer, or to the Journal of Biological Chemistry for income or other moneys due to the Herter Fund or other funds; the investment or reinvestment of the capital of the Herter Fund or other funds, subject to the approval of the Council or the Chairman of the Finance Committee; the disbursement of principal under the direction of the Council and the disbursement of income of the Herter Fund under the direction of the Editorial Board of the Journal of Biological Chemistry with the approval of the Chairman of the Finance Committee of the Council. The Trust Company shall keep books of account and render statements, annually or oftener upon the request of the Council or its Finance Committee, setting forth the condition of the Herter Fund or other funds and the receipts and disbursements since the date of the preceding statement.

SECTION 6. *Finance Committee.* A. *Membership.* The Finance Committee shall consist of the President of the Society, the Treasurer of the Society, the Managing Editor of the Journal of Biological Chemistry, and the Chairman of the Editorial Committee *ex officiis* together with one member of the Society to be appointed by the Council for a period of five years. The President shall designate the Chairman annually from among its members.

B. *Duties.* The Finance Committee shall meet at the time of the annual meeting of the Society or at the call of the Chairman or President and shall examine and verify the records of the Trust Company and all financial records concerning the manufacture and sale of the Journal of Biological Chemistry, these records having been duly audited by an independent public accountant. They shall at all times act as the agents of the Council with respect to the financial acts of the Trust Company as defined in Sub-section B of Section 5 and the financial acts of the Managing Editor of the

Journal of Biological Chemistry. They shall render an annual report to the Council.

ARTICLE VII. *Journal of Biological Chemistry*

SECTION 1. *Editorial Committee.* The Editorial Committee shall consist of nine members of the Society from different institutions who shall be nominated by the Nominating Committee and elected by the Society in the same manner as the officers. The term of office shall be six years and members shall not be eligible for re-election until after an interval of one year. Three members shall be elected each alternate year to succeed the three members whose terms shall have expired.

SECTION 2. *Powers of Committee.* The Editorial Committee shall elect a Chairman from among its own membership and the Chairman shall be eligible for re-election. The Committee shall have the power to appoint the members of the Editorial Board from among the membership of the Society and to determine their term of office. In making these appointments, the recommendations of the Managing Editor of the Journal are to be taken into consideration with respect to the qualifications of the appointees and to the needs of the Journal. The Commitee shall have the final authority in matters pertaining to the general policies of the Journal.

SECTION 3. *Editorial Board.* The members of the Editorial Board shall be appointed by the Editorial Committee to assist the Managing Editor in the editorial conduct of the Journal. The expenditure of the income of the Herter Fund shall be under the direction of the Editorial Board, subject to the provisions of Article VI, Section 5, of these By-Laws.

SECTION 4. *Managing Editor.* The Managing Editor shall be appointed by the Council in consultation with the Editorial Board and the Editorial Committee. He shall have direct responsibility and authority for both the active editorial conduct of the Journal and the management of its affairs, including contracts for publication, approval of advertising, office administration and related activities. The Managing Editor shall report annually to the Chairman of the Editorial Committee in advance of the regular meeting, and through him to the Council, on the condition of the Journal.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. *Presentation of Papers.* The Council shall set specifications on the time allotment for presentation of papers by members at meetings of the Society. Members shall have the privilege of introducing non-members for the purpose of presenting papers unless the privilege is revoked or limited by the Council.

SECTION 2. *Number of Papers.* The Council shall, from time to time, set the rules on the number of papers which may be presented by a member, as necessitated by changing circumstances but with regard to equality of privilege for the members.

ARTICLE IX. *Corporate Seal*

SECTION 1. The corporate seal of the corporation shall be a circle surrounded by the words, "AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS," and including the word, "INCORPORATED."

ARTICLE X. *Amendments*

SECTION 1. *Manner of Presentation.* Proposed amendments to the By-Laws must be sent to the Secretary at least three months before the date of the meeting at which they are to be considered and must be endorsed in writing by at least three members.

SECTION 2. *Notice of Intended Amendments.* The Secretary shall notify each member of proposed amendments at least three weeks before the meeting at which they are to be considered.

SECTION 3. *Adoption of Amendments.* Amendments to the By-Laws shall be voted upon by written ballot. After discussion at the first executive session, the Council shall instruct the Secretary whether to conduct the balloting at an executive session of the Society or by mail. Affirmative votes from three-fifths of the members voting shall be required for the adoption of an amendment. Amendments shall become effective July 1 following their adoption.

AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

Founded December 28, 1908; Incorporated June 19, 1933

OFFICERS, 1955–1956

President—E. G. Gross, State University of Iowa, Iowa City.

President-Elect—Harry Beckman, Marquette University School of Medicine, Milwaukee, Wis.

Secretary—Carl C. Pfeiffer, Emory University, Ga.

Treasurer—James M. Dille, University of Washington School of Medicine, Seattle.

Past President—Charles M. Gruber, College of Medical Evangelists, Loma Linda, Calif.

Council—E. G. Gross, Harry Beckman, Carl C. Pfeiffer, James M. Dille, Julius H. Comroe (1956), Kenneth I. Melville (1957), Paul K. Smith (1958).

Historian—E. M. K. Geiling.

COMMITTEES

Membership Committee—A. P. Richardson (1956), *Chairman*; Frederick E. Shideman (1957), Julius Coon (1958).

Nominating Committee—Allan Bass, *Chairman*; Hamilton H. Anderson, A. J. Lehman, Louis S. Goodman, E. R. Hart.

Standing Committee on Educational Affairs—Allan D. Bass, *Chairman*; Klaus Unna, Julius H. Comroe, Louis S. Goodman, Douglas Riggs.

Committee on Non-Scientific Professional Affairs—Alfred Gilman, *Chairman*; E. G. Gross, George Acheson, Harold Hodge, Hamilton H. Anderson.

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science—Allan Bass, Carl C. Pfeiffer.

Division of Medical Sciences, National Research Council—Harvey B. Haag.

Editorial Board

Board of Publication Trustees—McKeen Cattell, M. H. Seevers, L. S. Goodman, W. Clarke Wescoe, Otto Krayer.

Journal of Pharmacology and Experimental Therapeutics—W. Clarke Wescoe, *Editor*; R. P. Ahlquist, Oscar Bodansky, B. B. Brodie, T. C. Butler, J. M. Coon, J. M. Dille, R. D. Dripps, K. P. DuBois, R. F. Furchgott, Avram Goldstein, Harris Isbell, G. K. Moe, Lawrence Peters, W. F. Riker, Jr., J. E. P. Toman, K. R. Unna, R. P. Walton, J. A. Wells.

Pharmacological Reviews—Otto Krayer, *Chairman*; Harry Eagle, U. S. v. Euler, H. R. Ing, Alfred Gilman, Erik Jacobsen, Mark Nickerson, Douglas S. Riggs, Marthe Vogt, Miles Weatherall.

PAST OFFICERS

Presidents—**1909–1912** J. J. Abel. **1913–1915** T. Sollmann. **1916–1918** Reid Hunt. **1919–1920** A. S. Loevenhart. **1921–1923** C. W. Edmunds. **1924–1926** John Auer. **1927–1929** Carl Voegtlin. **1930–1931** G. B. Wallace. **1932–1933** W. de B. MacNider. **1934** R. A. Hatcher. **1935–1936** V. E. Henderson. **1937–1938** A. L. Tatum. **1939** O. H. Plant. **1940–1941** E. M. K. Geiling. **1942–1943** E. K. Marshall, Jr. **1944–1945** E. E. Nelson. **1946–1947** M. H. Seevers. **1948** C. A. Dragstedt. **1949–1950** C. F. Schmidt. **1951** McKeen Cattell. **1952** K. K. Chen. **1953** H. B. Haag. **1954** C. M. Gruber.

Vice-Presidents—**1932** A. N. Richards. **1933–1934** A. L. Tatum. **1935–1936** O. H. Plant. **1937–1939** E. M. K. Geiling. **1940–1941** C. F. Schmidt. **1942–1943** C. A. Dragstedt. **1944–1945** C. M. Gruber. **1946** H. B. Van Dyke. **1947** C. A. Dragstedt. **1948** H. B. Van Dyke. **1949** J. C. Krantz. **1950** McKeen Cattell.

Secretaries—**1909–1911** Reid Hunt. **1912–1916** J. Auer. **1917** L. G. Rountree. **1918–1930** E. D. Brown. **1931–1933** V. E. Henderson. **1934–1936** E. M. K. Geiling. **1937–1940** G. P. Grabfield. **1941–1945** R. N. Bieter. **1946–1950** H. B. Haag. **1951–** C. C. Pfeiffer.

Treasurers—**1909–1913** A. S. Loevenhart. **1914–1920** W. deB. MacNider. **1921–1923** H. McGuigan. **1924–1928** A. L. Tatum. **1929–1934** O. H. Plant. **1935–1938** C. M. Gruber. **1939–1943** E. E. Nelson. **1944–1946** McKeen Cattell. **1947–1950** K. K. Chen. **1951–1953** R. P. Walton. **1954–** J. M. Dille.

CONSTITUTION

Article I. *Name*

The name of this organization shall be the "American Society for Pharmacology and Experimental Therapeutics, Incorporated."

Article II. *Objects*

The purpose of this Society shall be to promote these branches of science and to facilitate personal intercourse between investigators who are actively engaged in research in these fields.

Article III. *Membership*

Section 1. Any person who has conducted and published a meritorious investigation in pharmacology or experimental therapeutics, and who is an active investigator in one of these fields, shall be eligible to membership, subject to the conditions of the other sections of Article III.

Section 2. A. Candidates for membership to this Society shall be proposed by two members who are not members of the Council. The names so proposed shall be sent to the Secretary at least three months prior to the Annual Meeting.

B. The Membership Committee shall investigate the qualifications of the candidates and report to the Council.

C. Candidates reported upon by the Membership Committee to the Council may be recommended for admission by the Council only provided they have been approved by four-fifths of the combined membership of the Membership Committee and the Council.

D. The names of the candidates recommended for admission by the Council shall be posted by the Secretary not later than the day preceding the election for members.

E. The election of members shall be by individual ballot; one opposing vote in every eight cast shall be sufficient to exclude a candidate from membership.

Section 3. *Forfeiture of Membership.*

A. Any member whose assessment is three years in arrears shall cease to be a member of the Society, unless he shall be reinstated by a special vote of the Council; and it shall be the duty of the Treasurer to inform the Secretary that he may notify the said delinquent of his right to appeal to the Council.

B. If the Council shall decide that it is for the best interests of the Society that a member be expelled, the member shall be notified and given an opportunity of a hearing before the Council. Upon the recommendation of the Council the member then may be expelled by a three-fourths vote of those present at a regular meeting of the Society.

Section 4. *Honorary Members.*

A. Distinguished men of science who have contributed to the advance of pharmacology or experimental therapeutics shall be eligible for election as honorary members of the Society.

B. Nominations for honorary members shall take the same course as nominations for ordinary members (Art. III, Sec. 2); but their election shall require the unanimous vote of the members present at the election.

C. Honorary members shall pay no membership fee. They shall have the right to attend all meetings of the Society, and to take part in its discussions, but they shall have no vote.

D. The conditions for continuation of membership shall be the same for honorary as for ordinary members (Art. III, Sec. 3), except that forfeiture for arrears of fees does not apply to honorary members.

Article IV. *Officers and Elections*

Section 1. *Officers and Committees.*

A. The management of the Society shall be vested in a Council of eight officers consisting of a President, President-Elect, Past President, Secretary, Treasurer of the Society, and three Councilors-at-Large.

B. The President-Elect, Secretary, Treasurer and one Councilor-at-Large shall be elected at each annual meeting and shall assume their respective duties on July 1 following their election. The Secretary and Treasurer may succeed themselves. The President-Elect shall become President after serving one year as President-Elect or in case of death or resignation of the President. No person who has served as President is eligible for re-election as President-Elect.

C. The three Councilors-at-Large shall serve for a period of three years, and shall not be eligible for immediate re-election.

D. There shall be a Membership Committee, consisting of three members. No two members shall be from the same institution. The election of the Membership Committee shall be held annually at the time when the election of officers occurs. At the first meeting of the Society under this constitution, one member shall be elected to serve on the Committee for three years, one for two years, and one for one year; and subsequently one member shall be elected each year to serve for a period of three years.

E. There shall be a Nominating Committee of five members. No two members shall be from the same institution. Members of the Nominating Committee shall serve for one year. They are eligible for re-election, but shall not hold membership in the Committee for more than two consecutive years.

F. No person may hold dual membership on the Council, Membership or Nominating Committees.

G. Members of the Nominating Committee are not eligible to nomination for other office.

Section 2. *Nomination of Officials and Committeemen.*

A. The Nominating Committee shall make at least one nomination for each office and for the

position on the Membership Committee to be filled by vote of the members. The nominations so made shall be transmitted to the Secretary and by him in turn to the members, at least one month before the annual meeting.

B. Nominations for membership on the Nominating Committee shall be made by individual members at the time of the annual election. The five nominees who receive the highest numbers of votes shall be declared elected. The Nominating Committee shall select its own Chairman who shall serve as Secretary to the Committee.

SECTION 3. *Election of Officials and Committeemen.*

A. At the opening of the first executive session of the annual meeting the Secretary shall give to each member present a printed ballot showing the nominations of the Nominating Committee. After accepting additional nominations from individual members present a complete list of nominees shall be posted. A preliminary vote shall then be taken and the tellers, appointed by the President to conduct the election, shall post immediately a final list showing the two nominees for each office receiving the highest number of votes. At the close of the first session, a final vote shall be taken. A majority of votes cast shall be necessary to a choice.

B. Such vacancies as may occur in the offices and in the various committees in the interval between annual meetings shall be filled by a majority vote of the Council.

ARTICLE V. *Meetings*

SECTION 1. The annual meeting of the Society shall be held at a time and place determined by the Council in consultation with the Executive Committee of the Federation of American Societies for Experimental Biology.

SECTION 2. Special meetings may be held at such times and places as the Council may determine.

SECTION 3. At least four weeks before the annual meeting the Secretary shall send to each member a notice of the time and place of such meeting and shall make such announcements as the Council may direct.

ARTICLE VI. *Financial*

SECTION 1. The annual assessment shall be determined by majority vote at the annual Spring meeting, upon the recommendation of the Council, and shall be due at the close of each such meeting.

SECTION 2. Beyond the ordinary expenditures required by the routine business of the Society no money shall be disbursed save by the authority of the Council or Society.

SECTION 3. The treasurer shall make an annual report to the Society.

SECTION 4. All publication funds shall be kept in a separate account, subject to the control of the Board of Publications Trustees except that none of these funds may be diverted from the support of publications of the Society except by consent of the Council or the Society. A financial report shall be made by the Board at each annual meeting.

ARTICLE VII. *Quorum*

Ten members shall constitute a quorum for the transaction of business.

ARTICLE VIII. *By-Laws*

By-Laws shall be adopted, altered or repealed at any meeting by two-thirds vote of the ballots cast.

ARTICLE IX. *Amendments*

SECTION 1. Intended amendments to the Constitution shall be sent to the Secretary at least one month before the date of the meeting at which they are to be considered and must be indorsed in writing by at least three members.

SECTION 2. The Secretary shall give all members due notice of proposed amendments.

SECTION 3. A four-fifths vote of the members present shall be required for the adoption of an amendment.

ARTICLE X. *Official Publications*

SECTION 1. The President of the Society shall appoint, in consultation with the Council, and subject to the approval of the Society, three members of the Society to serve as members of a Board of Publications Trustees; these members shall elect a Managing Editor for each of the official journals of the Society, and each Managing Editor, during the term of his service, shall act as an additional voting member of the Board of Publications Trustees and shall participate in all the activities of the Board except that of election of managing editors of the journals of the Society.

SECTION 2. The members of the Board of Publications Trustees, hereinafter termed "The Board," shall each serve for a term of three years, shall be subject to reappointment, and may hold office concurrently in the Society. At the first appointment, however, one member shall be appointed for three years, one member for two years, and one member for one year, in order that in the future, appointments may be made annually in rotation. The Board shall meet at least once annually (a quorum shall consist of three members) and shall report directly to the Society.

SECTION 3. The special functions of The Board shall be to consider and to investigate thoroughly all matters pertaining to the fiscal and editorial

policies of the journals which may come to the Society or to its Council, to the Managing Editors, and to the members of The Board. The Board shall (1) administer the finances of the journals, (2) establish the publication policies of the journals, and (3) elect a Managing Editor for each of the journals of the Society (as described in Sec. 1).

SECTION 4. The Managing Editor of each journal shall nominate to The Board, members of the Society acceptable to him as Associate Editors. In the event that the Society should develop an International Journal, foreign Associate Editors who are not members of the Society are eligible for nomination and appointment to the Editorial Board of said Journal. From those nominated, The Board shall elect, for each journal, Associate Editors in such number as they shall consider adequate to fulfill the duties of that Editorial Board. The Managing Editor and each Associate Editor shall serve for three years, subject to reappointment, and may hold office concurrently in the Society. In the choice of The Boards of Editors, The Board is charged with the responsibility of obtaining editors with expert knowledge in the several fields of pharmacological research and with evidenced ability for critical and grammatical expression.

SECTION 5. The Boards of Editors of the journals shall meet on call of the respective Managing Editor, if possible just prior to or during the regular meetings of the Society, and may make recommendations to The Board concerning the improvement of the publication policies of the journals.

BY-LAWS

1. Papers to be read shall be submitted by the members of the Society to the Secretary, who, with the President, shall be empowered to arrange the program. No person may orally present more than one paper. In case of joint authorship, the name of the individual who will orally present the paper shall stand first. Papers not read shall appear on the program as read by title.

2. An abstract of a paper to be read before the Society shall be sent to the Secretary with the title. As early as possible after each meeting, the Secretary shall edit and publish the Proceedings of the Society together with abstracts in a publication authorized by the Society.

3. All applications for membership shall be accompanied by a copy of as many reprints as possible of the published work of the applicant.

4. Any member who has been an active member for thirty years, or who has retired for disability or age, may upon notification to the Treasurer be relieved from payment of dues.

THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY

Founded December 29, 1913; Incorporated August 31, 1950

OFFICERS, 1955–1956

President—HAROLD L. STEWART, National Cancer Institute, Bethesda, Md.

Vice-President—F. W. HARTMAN, Henry Ford Hospital, Detroit, Michigan.

Secretary-Treasurer—CYRUS C. ERICKSON, University of Tennessee College of Medicine, Memphis.

Past President—RUSSELL L. HOLMAN, Louisiana State University, School of Medicine, New Orleans.

Councilors—HAROLD L. STEWART, F. W. HARTMAN, CYRUS C. ERICKSON, EMORY D. WARNER, WILLIAM B. WARTMAN, R. L. HOLMAN.

SPECIAL COMMITTEES

Meritorious Award or Honors Committee—JOHN G. KIDD, *Chairman*; FRANK W. HARTMAN, WILLIAM H. CARNES, DOUGLAS H. SPRUNT.

Publications Committee—CYRUS C. ERICKSON, *Chairman*; ROBERT W. WISSLER, HAROLD L. STEWART.

Registry of Nutritional Pathology Committee—PAUL R. CANNON, *Chairman*; W. STANLEY HARTROFT, ALVIN J. COX, C. L. PIRANI, HERBERT L. RATCLIFFE.

Membership Survey Committee—EMORY D. WARNER, *Chairman*; ROBERT STOWELL, H. D. MOON, W. B. WARTMAN, J. F. A. MCMANUS, GUS DAMIN.

REPRESENTATIVES TO OTHER ORGANIZATIONS

Division of Medical Sciences, National Research Council—RUSSELL L. HOLMAN.

American Association for the Advancement of Science—JAMES F. RINEHART, CHARLES C. RANDALL.

Eli Lilly Award Committee (jointly with the Society of American Bacteriologists)—*Nominations:* JOHN G. KIDD; *Awards*: WILLIAM M. HALE.

Commission for Biological Stains—J. F. A. MCMANUS.

Committee for Placement Service—KENNETH BRINKHOUS.

Intersociety Committee on Increasing Research Potential in Experimental Pathology—HAROLD L. STEWART.

PAST OFFICERS

Presidents—**1914** R. M. PEARCE. **1915** THEOBALD SMITH. **1916** SIMON FLEXNER. **1917** LUDVIG HEKTOEN. **1918** H. GIDEON WELLS. **1919** W. G. MACCALLUM. **1920** W. H. PARK. **1921** F. G. NOVY. **1922** H. T. KARSNER. **1923** E. L. OPIE. **1924** A. S. WARTHIN. **1925** G. H. WHIPPLE. **1926** WADE H. BROWN. **1927** DAVID MARINE. **1928** E. B. KRUMBHAAR. **1929** W. F. PETERSEN. **1930** F. L. GATES. **1931** S. R. HAYTHORN. **1932** PEYTON ROUS. **1933** C. V. WELLER. **1934** S. B. WOLBACH. **1935** OSKAR KLOTZ. **1936** A. R. DOCHEZ. **1937** C. P. MILLER. **1938** MORTON MCCUTCHEON. **1939** E. W. GOODPASTURE. **1940** SHIELDS WARREN. **1941** J. L. BOLLMAN. **1942–1945** BALDUIN LUCKÉ. **1946** P. R. CANNON. **1947** D. H. SPRUNT. **1948** H. P. SMITH. **1949** J. G. KIDD. **1950** J. F. RINEHART. **1951** FRIEDA S. ROBSCHEIT-ROBBINS. **1952** S. C. MADDEN. **1953** D. MURRAY ANGEVINE. **1954** R. L. HOLMAN.

Vice-Presidents—**1914** J. S. ANDERSON. **1915** G. H. WHIPPLE. **1916–1917** LEO LOEB. **1918** W. G. MACCALLUM. **1919** W. H. PARK. **1920** F. G. NOVY. **1921** H. T. KARSNER. **1922** E. L. OPIE. **1923** A. S. WARTHIN. **1924** G. H. WHIPPLE. **1925** W. H. BROWN. **1926** DAVID MARINE. **1927** E. B. KRUMBHAAR. **1928** W. F. PETERSEN. **1929** F. L. GATES. **1930** S. R. HAYTHORN. **1931** PEYTON ROUS. **1932** C. V. WELLER. **1933** S. B. WOLBACH. **1934** OSKAR KLOTZ. **1935** A. R. DOCHEZ. **1936** C. P. MILLER. **1937** MORTON MCCUTCHEON. **1938** E. W. GOODPASTURE. **1939** SHIELDS WARREN. **1940** J. L. BOLLMAN. **1941** BALDUIN LUCKÉ. **1942–1945** P. R. CANNON. **1946** D. H. SPRUNT. **1947** H. P. SMITH. **1948** J. G. KIDD. **1949** J. F. RINEHART. **1950** F. S. ROBSCHEIT-ROBBINS. **1951** S. C. MADDEN. **1952** D. M. ANGEVINE. **1953** RUSSELL L. HOLMAN. **1954** H. L. STEWART.

Secretary-Treasurers—**1914** G. H. WHIPPLE. **1915–1916** PEYTON ROUS. **1917–1920** H. T. KARSNER. **1921–1923** WADE H. BROWN. **1924–1926** E. B. KRUMBHAAR. **1927–1929** C. V. WELLER. **1930–1933** C. P. MILLER. **1934–1936** SHIELDS WARREN. **1937–1939** P. R. CANNON. **1940–1945** H. P. SMITH. **1946–1948** F. S. ROBSCHEIT-ROBBINS. **1949–1950** SIDNEY C. MADDEN. **1951–1952** R. L. HOLMAN. **1953–** CYRUS C. ERICKSON.

CONSTITUTION

ARTICLE I. *Name*

The Society shall be named "THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY."

Article II. *Object*

The object of this Society is to bring the productive investigators in pathology, working essentially by experimental methods, in closer affiliation with the workers in the other fields of experimental medicine.

Article III. *Time and Place of Meeting*

The Society shall meet at the same time and place as the Federation of American Societies for Experimental Biology, which comprises at present the American Physiological Society, the American Society of Biological Chemists, the American Society for Pharmacology and Experimental Therapeutics, the American Society for Experimental Pathology, the American Institute of Nutrition and the American Association of Immunologists.

Article IV. *Membership*

Section 1. Any American investigator who, through the use of experimental methods, has, within three years prior to his candidacy, contributed meritorious work in pathology, is eligible to membership.

Section 2. It shall be the policy of the Society to restrict its membership to as small numbers as is compatible with the maintenance of an active existence.

Section 3. There shall be two classes of members: active and honorary members.

Active members: Candidates for active membership shall be nominated at or before an annual meeting by two members of the Society. The nominators shall present to the Secretary in writing evidence of the candidate's qualifications for membership. Nominations approved by the Council shall be presented to the Society for election at the next annual meeting following nomination. For election a favorable ballot by a majority of the members present is necessary.

Honorary members: These may be elected from the active list or from the group of distinguished investigators at home or abroad who have contributed to the knowledge of pathology by experimental study. They shall be elected only by the unanimous vote of the members present at time of nomination.

Section 4. Active members shall pay such annual dues as are determined upon, from year to year, by the Council. Honorary members shall pay no dues, are not eligible to office, and have no vote in the business affairs of the Society, but they shall have all the privileges of the active members in the scientific proceedings.

Section 5. Upon failure of an active member to pay dues for two years, notice shall be given to the member by the Secretary. At the end of the third year, if dues are still unpaid, such failure constitutes forfeiture of membership.

Section 6. A motion for expulsion of a member must be thoroughly investigated by the Council; at this investigation the accused shall be afforded a hearing or may be represented by a member. Expulsion can be accomplished only after a unanimous vote by the Council in favor of expulsion, sustained by a four-fifths vote of the members present at the meeting.

Article V. *Officers*

The management of the Society shall be vested in a Council of six members, consisting of a President, the Past President, a Vice-President, a Secretary-Treasurer, and two other members who shall be nominated by the Council and elected by the Society. Officers are elected by a majority vote and remain in office until July 1 following the Federation Meeting. Vacancies shall be filled by the Council for the unexpired term.

The President and Vice-President shall hold office for one year and are ineligible for re-election during the following year. The Secretary-Treasurer is eligible for re-election. Councilors shall hold office for two years and are elected on alternate years. At the first election one Councilor shall be elected for a short term of one year.

Article VI. *Quorum*

Section 1. Three constitute a quorum of the Council. The Council decides by a majority vote.

Section 2. A quorum of the Society for transaction of business shall be one-fourth of the total membership. In all questions brought before the Society a majority vote of those present shall decide, except as elsewhere provided for.

Article VII. *Annual Meeting*

Section 1. Papers shall be limited to ten minutes. However, on motion and with unanimous consent, the time may be prolonged by a period not exceeding five minutes. The Council may make provision for longer papers on suitable occasions.

Section 2. The subjects of papers must be confined to experimental work in pathology. In doubtful cases a liberal interpretation by the President and Secretary may prevail. The Council may invite, however, presentations dealing with any subject which it considers of considerable interest to the Society.

Article VIII. *Change of Constitution*

A motion concerning a change of the Constitution must be presented to the Council in writing by three members, and must be communicated to

the members by the Secretary at least four weeks before the annual meeting. At this meeting such a change may be established when accepted by a four-fifths vote of the members present.

BY-LAWS

1. There must be in each year at least one meeting of the Council, which shall take place not later than the evening before the annual meeting.

2. At the end of the first session of the annual meeting the Secretary shall read the report of the Council. This report shall include (1) names of persons recommended for membership, (2) nominations for offices, (3) matters of general interest. The Secretary shall exhibit in a conspicuous place the names of candidates for membership recommended by the Council, together with the evidence of the qualifications of the candidates.

3. The election of officers and of new members, changes in the Constitution, etc., shall be voted upon at the end of the first session.

4. Changes in the By-Laws may be determined by a majority vote of those present.

5. In the year that a new Secretary-Treasurer is elected the incoming Council Member elected that year, or another member of the Council, shall become Assistant Secretary-Treasurer for the duration of the term of the Secretary-Treasurer.

AMERICAN INSTITUTE OF NUTRITION

Founded April 11, 1933; Incorporated November 16, 1934; Member of Federation 1940

OFFICERS, 1955–1956

President—W. H. SEBRELL, JR., American Cancer Society, New York City.

Vice-President—H. J. DEUEL, JR., University of Southern California, Los Angeles.

Past-President—GEORGE R. COWGILL, Yale University, New Haven, Conn.

Secretary—R. W. ENGEL, Virginia Polytechnic Institute, Blacksburg.

Treasurer—O. L. KLINE, Food and Drug Administration, Washington, D. C.

Council—W. H. SEBRELL, JR., H. J. DEUEL, JR., GEORGE R. COWGILL, R. W. ENGEL, O. L. KLINE, H. D. KRUSE (1956), J. M. HUNDLEY (1957), L. A. MAYNARD (1958).

COMMITTEES

Nominating Committee—PAUL L. DAY, HAROLD H. WILLIAMS, V. H. CHELDELIN, D. MARK HEGSTED, ICIE MACY HOOBLER.

Committee on Registry of Pathology of Nutritional Diseases—HERBERT POLLACK, *Chairman*; W. H. SEBRELL, JR., O. A. BESSEY. *Consultants:* P. R. CANNON, PAUL KLEMPERER, W. STANLEY HARTROFT. *Secretary:* C. L. PIRANI.

REPRESENTATIVES TO OTHER ORGANIZATIONS

Representatives on Committee on Biological Nomenclature (joint with American Society of Biological Chemists)—C. G. KING, E. M. NELSON.

Representative to the Division of Biology and Agriculture, to the Agricultural Research Institute and to the Food and Nutrition Board, National Research Council—N. R. ELLIS.

Representatives to American Association for the Advancement of Science Council—J. H. ROE, PAUL B. PEARSON.

Editorial Board, Journal of Nutrition

GEORGE R. COWGILL, *Editor* (1959); JAMES B. ALLISON (1956), CARL A. BAUMANN (1956), L. C. NORRIS (1956), E. W. CRAMPTON (1957), CHARLES R. GRAU (1957), GLADYS A. EMERSON (1957), GRACE A. GOLDSMITH (1958), W. D. SALMON (1958), L. D. WRIGHT (1958), J. S. DINNING (1959), J. M. ORTEN (1959), C. R. TREADWELL (1959).

PAST OFFICERS

Presidents—**1933** L. B. MENDEL. **1934–1935** J. R. MURLIN. **1936** E. F. DU BOIS. **1937** MARY S. ROSE. **1938** E. V. MCCOLLUM. **1939** H. C. SHERMAN. **1940** T. M. CARPENTER. **1941** A. G. HOGAN. **1942** L. A. MAYNARD. **1943** H. B. LEWIS. **1944** ICIE G. MACY-HOOBLER. **1945** W. C. ROSE. **1946** A. H. SMITH. **1947** R. M. BETHKE. **1948** E. M. NELSON. **1949** C. G. KING. **1950** W. H. GRIFFITH. **1951** C. M. MCCAY. **1952** PAUL L. DAY. **1953** C. A. ELVEHJEM. **1954** G. R. COWGILL.

Vice-Presidents—**1933** H. C. SHERMAN. **1934–1935** E. F. DUBOIS. **1936** MARY S. ROSE. **1937** E. V. MCCOLLUM. **1938–1939** T. M. CARPENTER. **1940** A. G. HOGAN. **1941** L. A. MAYNARD. **1942** H. B. LEWIS. **1943** ICIE G. MACY-HOOBLER. **1944** W. C. ROSE. **1945** A. H. SMITH. **1946** R. M. BETHKE. **1947** E. M. NELSON. **1948** C. G. KING. **1949** W. H. GRIFFITH. **1950** C. M. MCCAY. **1951** P. L. DAY. **1952** C. A. ELVEHJEM. **1953** GEORGE R. COWGILL. **1954** W. H. SEBRELL, JR.

Secretaries—**1933** J. R. MURLIN. **1934–1937** ICIE G. MACY. **1938–1940** L. A. MAYNARD. **1941–1944** A. H. SMITH. **1945–1947** H. E. CARTER. **1948–1950** J. H. ROE. **1951–1953** J. M. ORTEN. **1954–** R. W. ENGEL.

Treasurers—**1933** J. R. MURLIN. **1934** W. M. BOOTHBY. **1935–1939** G. R. COWGILL. **1940–1943** W. H. SEBRELL, JR. **1944–1946** E. M. NELSON. **1947–1949** N. R. ELLIS. **1950–1952** N. B. GUERRANT. **1953–** O. L. KLINE.

CONSTITUTION

1. The name of the proposed society is the "AMERICAN INSTITUTE OF NUTRITION."

2. The purposes of the society are to further the extension of the knowledge of nutrition and to facilitate personal contact between investigators in nutrition and closely related fields of interest.

3. The management of the American Institute of Nutrition shall be vested in a council consisting of the President, Vice-President, Past President, Secretary, Treasurer and three additional members.

BY-LAWS

ARTICLE I. *Membership*

SECTION 1. *Eligibility for membership:* Members. Qualified investigators who have independently

conducted and published meritorious original investigations in some phase of the chemistry or physiology of nutrition and who have shown a professional interest in nutrition for at least 5 years shall be eligible for membership in the Society.

SECTION 2. *Nomination:* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

SECTION 3. *Election to membership:* A. A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has reported its findings on his eligibility. B. A majority of the ballots cast shall elect.

SECTION 4. *Forfeiture:* If a majority of the Council after due notice to the member in question and opportunity for a hearing, shall decide that the interests of the Society require the expulsion of a member, the Secretary shall send a notice of this decision to each member at least two weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and if two-thirds of the members present vote for it, the member shall be expelled, his assessment for the current year shall be returned to him, and he shall cease to be a member of the Society.

ARTICLE II. *Meetings and Quorum*

SECTION 1. *Annual:* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

SECTION 2. *Special:* A special meeting may be called at any time by the President, or in case of his absence or disability, by the Vice-President, and must be called at the request in writing of a majority of the Council or fifty members of the Society. Notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which meetings shall be held.

SECTION 3. *Quorum:* Thirty members shall constitute a quorum at all meetings of the Society, but in the absence of a quorum any number shall be sufficient to adjourn to a fixed date.

ARTICLE III. *Officials*

SECTION 1. *Officers:* The officers shall be a President, and a Vice-President, who shall be elected annually, and a Secretary and Treasurer, each of whom shall be elected to serve for a term of three years. These officers shall be elected by the members of the Society. Their terms of office shall commence on July 1 of the year in which they are elected.

SECTION 2. *Council:* The officers so elected, the Past President and three additional members, one of whom shall be elected at each annual meeting to serve a term of three years, shall constitute a Board of Trustees and shall be known as "The Council." (When this provision is first put into effect one member shall be elected for 1 year, one for 2 years and the third for 3 years.)

SECTION 3. *Duties of officers:* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions.

ARTICLE IV. *The Council*

SECTION 1. *Powers:* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and possess all the powers conferred upon the Board of Trustees of an educational institution chartered by the Education Department of the University of the State of New York. A permanent charter was issued to the American Institute of Nutrition under date of November 16, 1934.

SECTION 2. *Reports:* The Council shall report to the Society its findings on the eligibility of candidates for membership, and on all charges of a violation of these By-Laws.

ARTICLE V. *Nominating Committee*

SECTION 1. *Membership:* A. The Nominating Committee shall consist of five members appointed for the coming year by the retiring President. Members who have served on the Nominating Committee for two consecutive years shall be ineligible for reappointment until after a lapse of one year. B. The President shall designate one member to be Chairman of the Nominating Committee.

SECTION 2. *Nomination of officials:* A. The Nominating Committee shall make at least one nomination for each of the four offices, for each of the additional positions on the Council to be filled by vote of the members and for each of the positions on the Editorial Board to be vacated at the time of the annual meeting. Any member of the Institute may submit nominations to the Nominating Committee for its consideration along with those nominations made by the members of the Nominating Committee. B. The nominations by the Nominating Committee shall be transmitted to the Secretary at least six weeks before the annual meeting at which they are to be considered. C. The Secretary shall send to every member, at least two weeks before the annual meeting, a printed ballot containing the list of nominees and space for such additional names as the member wishes to propose, and at the same time shall

notify the members that they may vote by mail, returning to the Secretary the marked ballot in the envelope provided, at such a time and place as the Secretary may designate, or the ballot may be delivered to the Secretary at the beginning of the business session at which the elections are to take place.

SECTION 3. *Election of officials:* A. At the beginning of the business session the Secretary shall present to the tellers, appointed by the President, the ballots submitted by the members and the ballots shall be counted forthwith. B. A majority of votes cast shall be necessary to elect an official.

SECTION 4. *Filling of vacancies:* A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society. B. The President of the Society shall fill all vacancies in appointive positions.

ARTICLE VI. *Financial*

SECTION 1. *Dues:* The dues shall be the annual cost of subscription to The Journal of Nutrition for members plus an annual assessment which shall be determined by majority vote at the annual meetings, upon recommendation of the Council, and shall be due within a month after the annual meeting. A member on attaining the age of 65 may elect to be relieved from all financial obligations to the Institute including subscription to The Journal of Nutrition.

SECTION 2. *Expenditures:* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council.

SECTION 3. *Penalty for non-payment of dues:* A. Members in arrears for dues for two consecutive years shall forfeit their membership. B. Delinquent members may be reinstated by the Council provided all indebtedness to the Society is liquidated.

ARTICLE VII. *The Journal of Nutrition*

SECTION 1. The American Institute of Nutrition designates *The Journal of Nutrition* as its official organ of publication.

SECTION 2. In accordance with the expressed wish of the Wistar Institute of Anatomy and Biology, owner and publisher of *The Journal of Nutrition*, the American Institute of Nutrition shall nominate members of the Editorial Board for its official organ. A. The editorial management of *The Journal of Nutrition* shall be vested in an Editorial Board consisting of an Editor and twelve Board Members. B. The Editor shall be chosen by the Editorial Board to serve a term of five years beginning July 1 of the year in which he is chosen, and shall be eligible for reëlection. The Editor shall have the power to designate one of the Board Members to serve as his assistant, and such an appointee shall be called Associate Editor. C. Three members of the Institute shall be nominated by the Nominating Committee for membership on the Editorial Board each year to serve a term of four years, replacing three retiring members and taking office May 1 of the year in which they are elected. In the event of a vacancy in the membership of the Editorial Board occurring through death or other reason, the Nominating Committee, for each such vacancy to be filled shall make an additional nomination. In this event the nominees elected who receive the greatest number of votes shall serve the longest term of vacancies to be filled. D. Retiring members of the Editorial Board shall not be eligible for renomination until one year after their retirement.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. The Secretary shall be authorized to arrange programs for the scientific sessions at the annual meetings.

ARTICLE IX. *Changes in Constitution and By-Laws*

SECTION 1. Proposed changes in the Constitution and By-Laws must be sent in writing to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be signed by at least three members. The Secretary shall send a printed copy of any proposed change to each member at least two weeks before the next meeting and shall notify all members that they may vote by proxy.

SECTION 2. If at this meeting two-thirds of the votes cast shall favor the proposed change, it shall be made.

THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS

Founded June 19, 1913; Member of Federation 1942

OFFICERS, 1955-1956

President—JULES FREUND, Public Health Research Institute, New York City.

Honorary President—ARTHUR F. COCA, Oradell, N. J.

Vice President—MERRILL W. CHASE, Rockefeller Institute for Medical Research, New York City.

Secretary-Treasurer—F. S. CHEEVER, University of Pittsburgh, Pittsburgh, Pa.

Council—JULES FREUND, MERRILL W. CHASE, F. S. CHEEVER, JOHN H. DINGLE, HARRY EAGLE, JOSEPH E. SMADEL, WILLIAM C. BOYD, JOHN Y. SUGG.

REPRESENTATIVES TO OTHER ORGANIZATIONS

Division of Medical Sciences, National Research Council—C. PHILIP MILLER.

Council of the American Association for the Advancement of Science—MARK ADAMS, WILLIAM H. TALIAFERRO.

Eli Lilly Award Committee (Joint with Society of American Bacteriologists)—*For nominations:* ALBERT H. COONS. *For award:* P. D. MCMASTER.

Editorial Board, Journal of Immunology

JOHN Y. SUGG, *Editor-in-Chief*; JOHN F. ENDERS, THOMAS FRANCIS, JR., KARL F. MEYER, JULES FREUND, GEOFFREY EDSALL.

PAST OFFICERS

Presidents—**1913** GERALD B. WEBB. **1915** JAMES W. JOBLING. **1916** RICHARD WEIL. **1917** JOHN A. KOLMER. **1918** WILLIAM H. PARK. **1919** HANS ZINSSER. **1920** RUFUS I. COLE. **1921** FREDERICK P. GAY. **1922** GEORGE W. MCCOY. **1923** H. GIDEON WELLS. **1924** FREDERICK G. NOVY. **1925** WILFRED H. MANWARING. **1926** LUDVIG HEKTOEN. **1927** KARL LANDSTEINER. **1928** EUGENE L. OPIE. **1929** OSWALD T. AVERY. **1930** STANHOPE BAYNE-JONES. **1931** ALPHONSE R. DOCHEZ. **1932** AUGUSTUS B. WADSWORTH. **1933** THOMAS M. RIVERS. **1934** FRANCIS G. BLAKE. **1935** WARFIELD T. LONGCOPE. **1936** SANFORD B. HOOKER. **1937** CARL TENBROECK. **1938** DONALD T. FRASER. **1939** GEORGE P. BERRY. **1940** PAUL R. CANNON. **1941** KARL F. MEYER. **1942-1945** JACQUES J. BRONFENBRENNER. **1945-1947** MICHAEL HEIDELBERGER. **1947** LLOYD D. FELTON. **1948** MICHAEL HEIDELBERGER. **1949** THOMAS FRANCIS, JR. **1950** GEOFFREY EDSALL. **1951** COLIN M. MACLEOD. **1952** JOHN F. ENDERS. **1953** THOMAS P. MAGILL. **1954** A. M. PAPPENHEIMER, JR.

Vice Presidents—**1913-1915** GEORGE W. ROSS. **1915** GEORGE P. SANBORN. **1916** JOHN A. KOLMER. **1947** MICHAEL HEIDELBERGER. **1948** LLOYD D. FELTON. **1949** MICHAEL HEIDELBERGER. **1950** COLIN M. MACLEOD. **1951** JOHN F. ENDERS. **1952** THOMAS P. MAGILL. **1953** A. M. PAPPENHEIMER, JR. **1954** JULES FREUND.

Secretary—**1913-1918** MARTIN J. SYNOTT. **1946-1947** ARTHUR F. COCA.

Treasurer—**1913-1918** WILLARD J. STONE. **1946-1947** A. J. WEIL.

Secretary-Treasurer—**1918-1945** ARTHUR F. COCA. **1948-1950** JULES FREUND. **1951-1953** JOHN Y. SUGG. **1954-** F. S. CHEEVER.

CONSTITUTION

(*As revised, 1949*)

ARTICLE I. *Name*

This association shall be called THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS.

ARTICLE II. *Object*

The purpose of the Association shall be to advance knowledge of immunology and related disciplines, and to facilitate interchange of ideas and information among investigators in the various fields.

ARTICLE III. *Members*

SECTION 1. The Association shall consist of active members, members emeriti and honorary members.

SECTION 2. Any qualified person engaged in the study of problems related to the purpose of the Association may apply for active membership. Candidates for active membership shall be nominated by two members of the Association on blanks furnished by the Secretary. Applications must be accompanied by letters of recommendation of the sponsors, a curriculum vitae, and a list of reprints of publications. The Council shall determine eligibility and post a list of candidates at the annual meeting. The membership shall elect new members by majority vote.

SECTION 3. Failure to pay dues for three successive years shall annul membership. The Council may reinstate a member if an acceptable explana-

tion is submitted and all indebtedness to the Association is liquidated. Payment of such indebtedness may be waived by unanimous vote of the Council if circumstances justify such action.

SECTION 4. If a two-thirds majority of the Council decides that the best interests of the Association require the expulsion of a member, the Secretary shall notify the affected member in writing of the charges. The Council shall allow a reasonable time for the presentation of his defense before acting. Upon recommendation of a two-thirds majority of the Council, the Secretary shall send a notice of the decision to each active member at least six weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and on a two-thirds vote of the members present, the member shall be expelled, his assessment for the current year shall be returned, and he shall cease to be a member of the Association.

SECTION 5. An active member of the Association for twenty years upon retirement because of age or disability, may elect to accept the status of member emeritus. As such he shall retain voting privileges but shall be relieved of all financial obligations to the Association and shall not receive the Journal without payment.

SECTION 6. The Council may nominate for honorary membership persons of extraordinary achievement in the field of endeavor of this Association. Election to honorary membership shall follow the same procedure as that for election for office in the Association, and the Secretary, on order of the Council, shall place nominations for honorary membership on the annual ballot.

ARTICLE IV. *Officers*

SECTION 1. The Association shall be governed by a Council, which shall consist of the Officers of the Association and five Councilors, one of whom shall be the Editor-in-Chief of the Journal of Immunology.

SECTION 2. The Officers of the Association shall be a President, a Vice President, a Secretary, and a Treasurer. The duties of the two latter may be performed by one or two individuals as determined by vote of the Association. (See By-Law # 7.)

SECTION 3. The President, the Vice President, the Secretary, and the Treasurer shall be elected at the regular annual meeting of the Association to serve for one year. Only the Secretary and the Treasurer are eligible to serve for successive terms in their respective offices. The term of office shall begin the day after the end of the annual meeting.

SECTION 4. One Councilor shall be elected each year to serve for a term of four years. He may however serve in any other elective office immediately after expiration of his term as Councilor.

SECTION 5. The President shall appoint a Nominating Committee of three (or more) members not currently serving on the Council of the Association and shall designate the Chairman. The Committee shall submit nominations for the offices of President, Vice President, Secretary, Treasurer, and Councilor. They may nominate the member currently serving as Vice President for the office of President, and the Councilor who is serving his fourth year for the office of Vice President. They shall submit the names of three members of the Association as candidates for the office of Councilor for a four-year term. The Nominating Committee shall confer at least three months before the annual meeting and shall transmit its nominations, over the signatures of the majority of the Committee, to the Secretary at least two months before the annual meeting. Other names may be added to the ballot upon petition of at least twenty-five members of the Association to the Secretary at least two months before the annual meeting. The Secretary shall send to each member of the Association, at least six weeks before the annual meeting, a ballot containing the list of all such nominees.

SECTION 6. The members of the Association shall vote on the nominations by secret ballot by mail. All ballots must be in the hands of the Secretary one week before the annual meeting. At the time of the annual meeting the Secretary shall present all the valid sealed ballots received by him to the tellers appointed by the President. A plurality of votes shall be sufficient for election.

SECTION 7. The Vice President shall substitute for the President when necessary. If both the President and Vice President are unable to serve, the senior Councilor shall temporarily assume the duties of President. Should a vacancy occur in the office of Secretary or Treasurer, or Councilor, the Council by a majority vote shall appoint a member to fill the unexpired term until the following election. In the event of a vacancy in the Council, the members shall in the following election choose two Councilors from among six nominees whose names shall be selected by the Nominating Committee and included on the ballot as above. Moreover, in this event the terms of the four Councilors shall be adjusted so as to provide an orderly progression within the general sense of the Constitution.

ARTICLE V. *Meetings*

SECTION 1. A regular meeting of the Association shall be held annually at such time and place as the Council shall determine. Regular meetings shall be open to all members of the Association. The members present at the annual meeting of the Association shall constitute a quorum.

SECTION 2. A meeting of the Council shall be held prior to the annual business meeting of the

Association. A quorum of the Council for this meeting shall be five.

SECTION 3. In case of equal division of votes, the President shall cast the decisive ballot.

SECTION 4. Minutes of the annual meeting of the Council and of the annual business meeting of the Association shall be published in the form of a news-letter and be distributed only to members of the Association. The annual report of the Treasurer shall be included in this news-letter.

ARTICLE VI. *Business*

SECTION 1. The fiscal year of the Association shall begin March first.

SECTION 2. Annual dues, upon recommendation of the Council, shall be determined by a majority vote at the annual meeting of the Association.

ARTICLE VII. *Publication*

SECTION 1. The Journal of Immunology, which is the property and official organ of this Association, shall be administered for the Association by an Editorial Board.

SECTION 2. An Editor-in-Chief shall be elected from the membership by a majority vote of the Council to serve for four years. His term of office shall be subject to renewal. He shall appoint with the consent of the Council an Editorial Board of four to six members to serve for four years. The Editor-in-Chief and the members of the Editorial Board shall be responsible for the editorial conduct of the Journal.

SECTION 3. The Editor-in-Chief shall, with the consent of the Council, appoint from the active members Associate Editors as needed. These Associate Editors are to be chosen because of their ability in specialized fields.

SECTION 4. The Editor-in-Chief shall make a report of his stewardship of the Journal at the annual meeting and in this report shall summarize the editorial situation and all matters dealing with finances. He shall submit to the Council statements relating to the number of manuscripts received, rejected, accepted, and published during the year; changes in editorial personnel of editors; a complete summary of circulation and of finances and of any other information which the Editorial Board may feel to be pertinent or which may be required by the Council.

ARTICLE VIII. *Amendments*

SECTION 1. Proposed changes in the Constitution shall be submitted by at least five members in writing through the Secretary to the President. The President shall then appoint a committee of at least three members which shall communicate its recommendations to the President for consideration by the Council. The Council shall then advise the Secretary to submit the recommendations of the committee to the membership of the Association for approval with the annual ballot. A change in the Constitution shall require a two-thirds majority of the votes cast by the members at the annual meeting and shall require confirmation by a majority in a mail vote in which at least 50% shall have participated.

SECTION 2. As an alternative procedure a proposed change in the Constitution may be submitted directly to the Council by petition of one-tenth of the total active membership. Under this circumstance the Council is required to arrange for a vote by the members as heretofore described.

SECTION 3. Proposed changes in By-Laws may be adopted by two-thirds vote of members present at the annual meeting.

BY-LAWS

1. The Past Presidents shall have the right of attending, without vote, the meetings of the Council.

2. The President may appoint a Past President or a Past Councilor as pro tempore Councilor at any stated meeting of the Council at which a quorum is not present.

3. The Council may transact and vote by mail on such business as cannot be conveniently transacted at meetings.

4. The Secretary shall arrange the program for the scientific meetings, with the advice of the other officers of the Association. Any member in good standing shall have the right to submit a paper. The privilege of presentation may be extended to non-members upon recommendation of active members. Papers intended for presentation at the meetings shall conform to the standards of the Journal of Immunology. In case of doubt, the Secretary shall have the right to submit papers to the scrutiny of three or more members of the Editorial Board of the Journal of Immunology whose decision shall be final.

5. Each member who signifies his intention of reading a paper at any session may specify the length of time which its presentation shall require. In the absence of any specification of time required not more than ten minutes shall be allotted for the reading of any one paper. The time allotted shall be printed on the official program, and the presiding officer shall have no authority to extend it unless a majority of the members present signify their wish to the contrary.

6. If by force of circumstances it should be impossible to hold the annual meeting, the election of Officers and Council may be carried out entirely by mail.

7. The offices of Secretary and Treasurer are combined and shall be held by one person.

8. Official or invited addresses presented at the annual meeting shall be given immediate priority in publication, unless the Editor-in-Chief shall be otherwise instructed by majority vote of the Council.

9. Dues are payable on or before January 1st and subscriptions to the Journal will be lapsed if not paid by this date.

10. If the Editor-in-Chief is unable to attend the stated meeting of the Council, he may designate an alternate from the membership of the Editorial Board.

ALPHABETICAL LIST OF MEMBERS OF THE SIX SOCIETIES

(1) The American Physiological Society
(2) American Society of Biological Chemists
(3) The American Society for Pharmacology and Experimental Therapeutics
(4) The American Society for Experimental Pathology
(5) The American Institute of Nutrition
(6) The American Association of Immunologists

Number and year in parentheses following each name indicate Society affiliation and year of election
*H signifies honorary member; **R** signifies retired status*

Abbott, Lynn D., Jr., Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Biochemistry.* (**2**, 1948)

Abood, Leo G., Ph.D. Univ. of Illinois, College of Medicine, Dept. of Psychiatry, Chicago. *Assoc. Prof. of Biochemistry and Neurophysiology* (**1**, 1951)

Abrams, Adolph, Ph.D. Univ. of Colorado Med. School, Denver 20. *Asst. Prof. of Biochemistry.* (**2**, 1955)

Abrams, Richard, Ph.D. Montefiore Hospital, Inst. of Research, 3459 Fifth Ave. at Darragh, Pittsburgh 13, Pa. *Assoc. Dir.* (**2**, 1953)

Abramson, David I., M.D. Univ. of Illinois, Dept. of Physical Medicine, Chicago 12. *Prof. and Head of Dept.; Attending Physician, Michael Reese and Mt. Sinai Hosps.* (**1**, 1937)

Abramson, Harold A., M.D. Mt. Sinai Hospital, New York City. *Chief, Allergy Clinic; Asst. Prof. of Physiology, Columbia Univ. College of Physicians and Surgeons.* (**1**, 1930; **2**, 1934)

Abreu, Benedict E., Ph.D., M.D. Pitman-Moore Co., Indianapolis, Ind. *Assoc. Research Dir.* (**3**, 1941)

Acheson, George H., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Pharmacology.* (**1**, 1942; **3**, 1945)

Ackermann, W. Wilbur, Ph.D. 116 N. State St., Ann Arbor, Mich. *Assoc. Prof. of Epidemiology, Univ. of Mich.* (**2**, 1952; **6**, 1953)

Adams, Elijah, M.D. New York Univ. College of Medicine, Dept. of Pharmacology, New York City. (**2**, 1954)

Adams, Georgian, M.A., D.Sc. U.S. Dept. of Agriculture, State Exper. Stations Div., Agric. Research Service, Washington 25, D. C. *Exper. Station Admin.* (**5**, 1946)

Adams, John M., M.D., Ph.D. Univ. of California, 405 Hilgard Ave., Los Angeles 24. *Prof. and Chairman of Pediatrics.* (**4**, 1947)

Adams, Mark, Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Assoc. Prof. of Microbiology.* (**6**, 1951)

Adams, Mildred, Ph.D. Dept. of Agriculture, Human Nutrition Research Branch, Beltsville, Md. *Head, Nutritional Requirements Sec.* (**2**, 1934)

Adams, R. Charles, M.D., M.S. Mayo Clinic, Rochester, Minn. *Assoc. Prof. of Anesthesiology, Mayo Foundation; Consultant, Mayo Clinic, Section on Anesthesia.* (**3**, 1942)

Adams, W. Lloyd, M.D., Ph.D. 900 First Natl. Bank Bldg., Lexington 6, Ky. *Practicing Ophthalmologist.* (**3**, 1942)

Adams, Wright R., M.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Prof. and Chairman of Medicine.* (**1**, 1946)

Addison, William H., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. Emeritus of Histology and Embryology.* (**1R**, 1928)

Ades, Harlow Whiting, Ph.D. Univ. of Texas Southwestern Med. School, Dallas. *Prof. of Anatomy.* (**1**, 1953)

Adey, W. R., M.D. Univ. of Melbourne, Dept. of Anatomy, Melbourne, Australia. *Sr. Lecturer in Anatomy.* (**1**, 1955)

Adler, Frank L., Ph.D. Public Health Research Inst. of City of New York, Foot of E. 15th St., New York City, 9. *Assoc.* (**6**, 1953)

Adler, Harry F., Ph.D., M.D. 274 W. Ware Blvd., San Antonio, Tex. (**1**, 1943)

Adler, Terrine K., Ph.D. Univ. of California Med. Center, San Francisco 22. *Asst. Research Pharmacologist.* (**3**, 1954)

Adolph, Edward Frederick, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Physiology.* (**1**, 1921)

Adolph, William H., Ph.D. Sterling Hall of Medicine, Yale Univ., New Haven, Conn. (**2R**, 1946; **5**, 1934)

Adrian, E. D. Cambridge Univ., Dept. of Physiology, Cambridge, England. (**1H**, 1946)

Agress, Clarence M., M.D. Univ. of California, Los Angeles. *Asst. Clin. Prof. of Medicine.* **(1,** 1955)

Ahlquist, Raymond P., Ph.D. Med. College of Georgia, Augusta. *Prof. and Chairman of Dept. of Pharmacology.* **(1,** 1952; **3,** 1945)

Ainslie, John D., M.D. Public Health Service Hospital, Box 2000, Lexington, Ky. *Surgeon.* **(6,** 1951)

Ajazzi-Mancini, Mario, M.D. Univ. of Firenze, Dept. of Pharmacology, Viale G. B. Morgagni 65, Firenze, Italy. *Dir. of Pharmacology* **(3,** 1951)

Akers, Robert P., Ph.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Research Physiologist, Lab. of Cardiovascular Hemodynamics.* **(1,** 1955)

Albanese, Anthony A., Ph.D. St. Luke's Convalescent Hospital, Nutritional Research Lab., King St., Greenwich, Conn. *Chief of Nutritional Research.* **(2,** 1944)

Albaum, Harry G., Ph.D. Brooklyn College, Bedford Ave. and Ave. H, Brooklyn, N. Y. *Prof. of Biology.* **(2,** 1947)

Albert, A., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Head, Endocrinology Lab.* **(1,** 1947)

Albritton, Errett C., M.D. George Washington Univ. Med. School, 1339 H St., N.W., Washington, D. C. *Fry Prof. of Physiology.* **(1,** 1933)

Alden, Roland H., Ph.D. Univ. of Tennessee, College of Medicine, Memphis 3. *Prof. and Chief, Div. of Anatomy.* **(1,** 1949)

Alderton, Gordon, M.S. U. S. Dept of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Chemist.* **(2,** 1952)

Alexander, Benjamin, M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Assoc. Dir., Med. Serv.; Assoc. Prof. of Medicine, Harvard Med. School.* **(2,** 1951)

Alexander, Robert S., Ph.D. Albany Med. College, Dept. of Physiology, Albany, N. Y. *Prof. and Chairman of Dept.* **(1,** 1946)

Alfin-Slater, Roslyn B., Ph.D. Univ. of Southern California, School of Medicine, Dept. of Biochemistry and Nutrition, Los Angeles 7. *Asst. Prof. of Biochemistry.* **(2,** 1952; **5,** 1955)

Alfredson, Bernard V., D.V.M., M.S. Michigan State College, Dept. of Physiology and Pharmacology, East Lansing. *Prof. and Head of Dept.* **(1,** 1951)

Algire, Glenn H., M.D. Natl. Cancer Inst., Bethesda, Md. *Sr. Surgeon, USPHS.* **(4,** 1945)

Allan, Frank N., M.D. Lahey Clinic, 605 Commonwealth Ave., Boston, Mass. *Exec. Dir. of the Med. Dept.* **(4,** 1930)

Allen, Charles Robert, Ph.D., M.D. Univ. of Texas School of Medicine, Galveston. *Prof. and Chairman, Dept. of Anesthesiology.* **(1,** 1943)

Allen, Frank W., Ph.D. Univ. of California, 1557 Life Science Building, Berkeley. *Prof. of Physiological Chemistry.* **(2,** 1947)

Allen, Frederick M., M.D. 1031 Fifth Ave., New York City. **(1R,** 1924; **4,** prior to 1920)

Allen, J. Garrott, M.D. Univ. of Chicago, Univ. Clinics, Chicago, Ill. *Instr. in Surgery.* **(1,** 1943)

Allen, Lane, Ph.D., M.D. Med. College of Georgia, Univ. Place, Augusta. *Prof. of Anatomy.* **(1,** 1939)

Allen, Shannon C., Ph.D. R.R. 1, Algonquin, Ill. **(1,** 1945)

Allen, Thomas H., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Assoc. Prof.* **(1,** 1947)

Allen, Willard M., M.D. Washington Univ. School of Medicine, 630 S. Kingshighway, St. Louis, Mo. *Prof. of Obstetrics and Gynecology.* **(1,** 1934)

Alles, Gordon A., Ph.D. 770 S. Arroyo Parkway, Pasadena, Calif. *Prof. of Pharmacology in Residence, Univ. of California Med. School, Los Angeles; Lecturer in Pharmacology, Univ. of California Med. School, San Francisco; Research Assoc. in Biology, California Inst. of Technology,* **(1,** 1932; **3,** 1941)

Alling, Eric L., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. in Medicine; Assoc. in Radiology.* **(4,** 1947)

Allison, James B., Ph.D. Rutgers Univ., New Brunswick, N. J. *Prof. of Physiology and Biochemistry; Dir. of Bureau of Biological Research.* **(2,** 1946; **5,** 1949)

Almquist, Herman J., Ph.D., D.Sc. The Grange Co., Modesto, Calif. *Dir. of Research and Vice-Pres.* **(2,** 1937; **5,** 1937)

Altland, Paul D., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Physiologist.* **(1,** 1950)

Altschul, Aaron M., Ph.D. Southern Regional Research Lab., USDA, 2100 R. E. Lee Blvd., New Orleans, 24, La. *Head, Oilseed Sec.* **(2,** 1949)

Alvarez, Walter C., M.D. 700 N. Michigan Ave., Chicago 11, Ill. **(1R,** 1917; **3R,** 1921)

Alving, Alf Sven, M.D. Billings Hospital, Univ. of Chicago, 950 E. 59th St., Chicago 37, Ill. *Prof. of Medicine.* **(1,** 1939)

Amassian, Vahe Eugene, M.B., B.Ch. Univ. of Washington School of Medicine, Seattle 5. *Assoc. Prof. of Physiology and Biophysics.* **(1,** 1953)

Amberg, Samuel, M.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. Emeritus of Pediatrics, Mayo Foundation.* **(1R,** 1903; **2R,** 1906; **3R,** 1909)

Amberson, William R., Ph.D. Univ. of Maryland School of Medicine, Baltimore. *Prof. of Physiology.* **(1,** 1924)

Ambrose, Anthony M., Ph.D. Western Regional Research Lab., USDA Agric. Research Service, 800 Buchanan St., Albany, Calif. *Sr. Pharmacologist.* **(3,** 1937)

Ambrus, Clara M., M.D., Ph.D. Roswell Park

Memorial Inst., Sec. on Physiology and Pharmacology, Buffalo 3, N. Y. (3, 1953)

Ambrus, Julian L., M.D., Ph.D. Roswell Park Memorial Inst., Sec. on Physiology and Pharmacology, Buffalo 3, N. Y. *Principal Cancer Research Scientist, State of N. Y.* (3, 1953)

Ames, Stanley R., Ph.D. Distillation Products Ind., Div. of Eastman Kodak Co., Rochester 3, N. Y. *Research Assoc.* (2, 1948)

Amoss, Harold L., M.D., Dr.P.H., Sc.D. 68 Deerfield Drive, Greenwich, Conn. (4, 1922; 6, 1917)

Anchel, Marjorie, Ph.D. New York Botanical Garden, Bronx Park, New York City 58 (Fordham P.O.). *Research Assoc.* (2, 1951)

Andersch, Marie A., Ph.D. Univ. Hospital, Baltimore, Md. *Asst. Dir. of Lab.* (2, 1940)

Andersen, Dorothy H., M.D. Babies Hospital, Broadway and 167th St., New York City. *Assoc. Prof. of Pathology, Columbia Univ.* (4, 1935)

Anderson, Carl E., Ph.D. Univ. of North Carolina, School of Medicine, Dept. of Biological Chemistry, Chapel Hill. *Assoc. Prof. of Biochemistry.* (2, 1950)

Anderson, Evelyn, M.D., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Chief, Section of Endocrinology.* (1, 1934)

Anderson, Hamilton H., M.D. Univ. of California School of Medicine, Dept. of Pharmacology & Experimental Therapeutics, San Francisco 22. *Prof. and Chairman.* (3, 1931)

Anderson, Joseph T., Ph.D. Univ. of Minnesota, Lab. of Physiological Hygiene, Minneapolis 14. *Assoc. Prof.* (5, 1952)

Anderson, Laurens, Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Asst. Prof. of Biochemistry.* (2, 1953)

Anderson, Norman G., Ph.D. Biology Div., Oak Ridge Natl. Lab., Oak Ridge, Tenn. *Biologist.* (1, 1954)

Anderson, Oscar Daniel, Ph.D. Adelphi College, Dept. of Psychology, Garden City, N. Y. (1, 1939)

Anderson, Robert C., B.S. Lilly Research Labs., Eli Lilly & Company, Indianapolis 6, Ind. *Head, Dept. of Toxicology.* (3, 1954)

Anderson, Rubert S., Ph.D. Chemical Corps Med. Labs., Army Chemical Center, Md. (1, 1948)

Anderson, Rudolph J., Ph.D. Sterling Lab., Yale Univ., New Haven, Conn. *Prof. of Chemistry.* (2, 1915)

Anderson, W. A. D., M.D. Univ. of Miami School of Medicine, Coral Gables 34, Fla. *Prof. of Pathology.* (4, 1941)

Anderson, William E., M.A. Eastern State Farmers' Exchange, Westbrook Farm, Rockville, Conn. *Biochemist.* (2R, 1931; 5, 1933)

Andervont, H. B., D.Sc. Natl. Cancer Inst., Bethesda, Md. *Chief, Lab. of Biology.* (4,1939)

Andrews, James C., Ph.D. School of Medicine, Univ. of North Carolina, Chapel Hill. *Head of Dept. and Prof. of Biological Chemistry and Nutrition.* (2, 1925)

Andrus, E. Cowles, M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Physician in Charge, Adult Cardiac Clinic; Assoc. Prof. of Medicine, Johns Hopkins Univ.* (1, 1925)

Anfinsen, Christian B., Jr., Ph.D. Natl. Heart Inst., Labs. of Cellular Physiology and Metabolism, NIH, Bethesda 14, Md. *Section Chief.* (2, 1946)

Angerer, Clifford, A. Ph.D. Dept. of Physiology, Ohio State Univ. College of Medicine, Columbus 10. *Prof. of Physiology.* (1, 1943)

Angevine, D. Murray, M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Pathology.* (4, 1940)

Anker, H. S., M.D., Ph.D. Univ. of Chicago, Dept. of Biochemistry, 947 E. 58th St., Chicago 37, Ill. *Assoc. Prof.* (2, 1949)

Annegers, John H., Ph.D., M.D. Northwestern Univ. Med. School, Dept. of Physiology, 313 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof. of Physiology.* (1, 1949)

Ansbacher, Stefan, Sc.D. Jocinah Farms, R.R. 1., Marion, Ind. *Scientific and Med. Consultant.* (2, 1939)

Anslow, W. Parker, Jr., Ph.D. Univ. of Virginia, School of Medicine, Dept. of Physiology, Charlottesville. *Prof. and Chairman of Dept.* (1, 1955; 2, 1948)

Anson, Mortimer L., Ph.D. Lever Bros. Research Center, Edgewater, N. J. *Asst. Research Dir.* (2, 1937)

Antopol, William, M.D. Beth Israel Hospital, 10 Livingstone Pl., New York City 3. *Dir., Research, Joseph H. Levy Fndn.* (4, 1953)

Apperly, Frank L., D.Sc., M.D. Med. College of Virginia, Richmond. *Prof. of Pathology.* (4, 1936)

Aptekman, Paul Myron, Ph.D. The Wistar Inst., 36th and Woodland Ave., Philadelphia 4, Pa. *Curator of the Museum; Fellow in Chemistry.* (6, 1953)

Archibald, Reginald M., Ph.D., M.D. Rockefeller Inst. Hospital, 66th St. and York Ave., New York City 21. *Member, Rockefeller Inst. for Med. Research.* (2, 1947)

Arkin, Aaron, M.D., Ph.D. Suite 2006, 25 E. Washington St., Chicago, Ill. *Rush Prof. of Medicine, Univ. of Illinois; Prof. and Chairman of Dept. of Medicine, Cook County Grad. School.* (1, 1914; 3, 1919)

Armstrong, Harry G., M.D. HQ, USAF, Washington 25, D. C. *Maj.-Gen., USAF MC.* (1R, 1948)

Armstrong, Marvin D., Ph.D. Univ. of Utah School of Medicine, Salt Lake City 1. *Assoc. Research Prof., Dept. of Biochemistry.* (2, 1951)

Armstrong, Philip B., M.D. State Univ. of N. Y. College of Medicine, Syracuse 10, N.Y. *Prof. of Anatomy.* (1, 1945)

Armstrong, W. D., M.D., Ph.D. Univ. of Minnesota, Med. School, 227 Millard Hall, Minneapolis 14. *Prof. and Head of Physiological Chemistry.* (2, 1938)

Arnold, Aaron, Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head of Nutritional Research Lab.* (5, 1947)

Arnold, Lloyd, A.M., M.D. 1538 E. 57th St., Chicago, Ill. (4, 1930; 6, 1925)

Arnow, L. Earle, Ph.D., M.D. Sharp & Dohme, Div. of Merck & Co., Inc., West Point, Pa. *Vice Pres. and Dir. of Research.* (2, 1940)

Aronoff, S., Ph.D. Iowa State College, Botany Hall, Ames. *Assoc. Prof.* (2, 1954)

Aronson, Joseph D., M.D. The Henry Phipps Inst., Univ. of Pennsylvania, Philadelphia. *Prof. of Bacteriology* (4, 1927; 6, 1925)

Artom, Camillo, M.D., Ph.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem, N. C. *Prof. of Biochemistry.* (2, 1944)

Ascham, Leah, Ph.D. Kansas State College, Manhattan. *Prof. Emeritus in School of Home Economics.* (5, 1935)

Asenjo, Conrado F., Ph.D. Univ. of Puerto Rico, School of Tropical Medicine, San Juan 22. *Prof. and Head, Dept. of Biochemistry and Nutrition.* (2, 1944; 5, 1951)

Ashby, Winifred M., Ph.D. 305 10th St., N.E., Washington, D. C. (6, 1923)

Ashman, Richard, Ph.D. 5902 Marshall Foch St., New Orleans, La. *Prof. of Physiology, Louisiana State Univ.* (1R, 1925)

Astwood, Edwin Bennett, M.D., Ph.D. New England Center Hospital, Boston 11, Mass. *Prof. of Medicine, Tufts Univ.* (1, 1939)

Atkin, Lawrence, Ph.D. The Fleischmann Labs., Standard Brands, Inc., Betts Ave., Stamford, Conn. *Asst. Dir. of Research.* (2, 1946; 5, 1946)

Aub, Joseph C., M.D. Massachusetts General Hospital. Fruit St., Boston 14. *Prof. of Research Medicine, Harvard Med. School.* (1, 1919; 5, 1933)

Auerbach, Stewart H. Thayer Veterans Administration Hospital, Nashville, Tenn. *Chief, Lab. Service.* (4, 1953)

Austin, George M., M.D. Univ. of Pennsylvania, University Hospital, Philadelphia 4. *Asst. Prof. of Neurosurgery.* (1, 1954)

Aviado, Domingo M., Jr., M.D. Univ. of Pennsylvania Med. School, Dept. of Pharmacology, Philadelphia. *Asst. Prof. Pharmacology* (1, 1951; 3, 1950)

Awapara, Jorge, Ph.D. M. D. Anderson Hosp., Texas Med. Center, Houston, Tex. *Assoc. Biochemist.* (2, 1951)

Axelrod, Abe E., Ph.D. Univ. of Pittsburgh School of Medicine, Dept. of Biochemistry, 3941 O'Hara St., Pittsburgh, Pa. *Professor.* (2, 1950; 5, 1949)

Axelrod, Bernard, Ph.D. Purdue Univ., Dept. of Biochemistry, Lafayette, Ind. *Assoc. Prof.* (2, 1948)

Axelrod, Julius, Ph.D. Natl. Inst. of Mental Health, Lab. of Clin. Science, NIH, Bethesda 14, Md. *Chief, Sec. on Pharmacology; Sr. Pharmacologist.* (3, 1953)

Axtmayer, Joseph H., Ph.D. Univ. of Puerto Rico, Rio Piedras. *Prof. of Chemistry; Dir. Inst. of Nutrition.* (5, 1935)

Bacchus, Habeeb, Ph.D. George Washington Univ., School of Medicine, Dept. of Physiology, Washington, D. C. *Asst. Research Prof.* (1, 1952)

Bach, L. M. N., Ph.D. Tulane Univ. School of Medicine, New Orleans, La. *Prof. of Physiology.* (1, 1948)

Bachem, Albert, Ph.D. Univ. of Illinois College of Medicine, Chicago 12. *Prof. of Biophysics.* (1R, 1933)

Bacher, James E., Ph.D. Rt. 1, Box 419, Lakeport, Calif. (2, 1953)

Bachman, Carl, M.D. Univ. of Pennsylvania School of Medicine, 3400 Spruce St. Philadelphia 4. *Prof. and Dir. of Obstetrics and Gynecology.* (2, 1941)

Bachmann, George, M.D. Georgian Clinic, Georgia Commission on Alcoholism, 1260 Briarcliff Rd., N.E., Atlanta. *Med. Dir.* (1R, 1912)

Bachrach, William H., M.D., Ph.D. Univ. of Southern California School of Medicine, Dept. of Physiology, Los Angeles 7. *Visiting Assoc. Prof. of Physiology.* (1, 1949)

Baer, Erich, Ph.D. Banting Inst., Banting and Best Dept. of Med. Research, 100 College St., Toronto, Ont., Canada. *Prof.* (2, 1942)

Baer, Harold, Ph.D. Tulane Univ. School of Medicine, Dept. of Microbiology, New Orleans, La. *Asst. Prof.* (6, 1955)

Baernstein, Harry D., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Sr. Biochemist.* (2, 1934)

Baetjer, Anna M., D.Sc. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Assoc. Prof. of Environmental Medicine.* (1, 1929)

Baez, Silvio, M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Asst. Prof.* (1, 1950)

Bahrs, Alice M., Ph.D., M.D. 3010 Johnson St., Corvallis, Ore. (1, 1933)

Bailey, Cameron Vernon, C.M., M.D. R 2 West St., Newtown, Conn. (2R, 1920; 5R, 1933)

Bailey, Orville T., M.D. Larue D. Carter Mem. Hospital, 1315 W. 10th St., Indianapolis 7, Ind. *Prof. of Neuropathology, Indiana Univ. Med. School.* (4, 1939)

Bailey, Percival, M.D., Ph.D. Univ. of Illinois College of Medicine, 912 S. Wood St., Chicago 12, Ill. *Prof. of Neurology.* (1, 1941)

Bain, James A., Ph.D. Dept. of Pharmacology, Emory Univ. School of Medicine, Emory Univ., Ga. (**3,** 1951)

Baitsell, George Alfred, Ph.D. Yale Univ., Osborn Zoological Lab., Yale Sta., New Haven, Conn. *Emeritus Prof. of Biology.* (**1R,** 1915)

Baker, A. B., M.D. Univ. of Minnesota Hospital, Minneapolis. *Dir. and Prof. of Neurology and Neuropathology.* (**4,** 1940)

Baker, Burton L., Ph.D. Univ. of Michigan, Dept. of Anatomy, Ann Arbor. *Professor.* (**1,** 1951)

Baker, Carl G., M.D. Natl. Cancer Inst., Lab. of Biochemistry, NIH, Bethesda 14, Md. *Surgeon, PHS* (**2,** 1955)

Baker, Edgar E., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. of Microbiology.* (**6,** 1950)

Baker, James A., D.V.M., Ph.D. Cornell Univ., New York State Veterinary College, Ithaca. *Dir., Veterinary Virus Research.* (**4,** 1947)

Baker, Roger D., M.D. VA Hosp., Durham, N. C. *Chief, Lab. Service; Prof. of Pathology, Duke Univ. School of Medicine.* (**4,** 1939)

Baker, Walter W., Ph.D. Jefferson Med. College, Dept. of Pharmacology, Philadelphia, Pa. *Instructor.* (**3,** 1955)

Baldes, Edward J., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Biophysics, Mayo Fndn., Grad. School, Univ. of Minnesota; Chairman, Sec. on Biophysics & Biophysical Research, Mayo Clinic.* (**1,** 1933)

Bale, William F., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Radiation Biology.* (**1,** 1943)

Balis, M. Earl, Ph.D. Sloan-Kettering Inst., 444 E. 68th St., New York City 21. *Assoc. Member; Asst. Prof. of Biochemistry, Cornell Univ. Med. College.* (**2,** 1953)

Ball, Eric G., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Prof. of Biological Chemistry.* (**2,** 1934)

Ball, Howard A., M.D. 233 A St., San Diego 1, Calif. *Pathologist.* (**4,** 1947)

Balls, Arnold Kent, Ph.D. Purdue Univ., Dept. of Agricultural Chemistry, Lafayette, Ind. *Prof. of Enzyme Chemistry.* (**2,** 1932)

Bancroft, Richard W., Ph.D. USAF School of Aviation Medicine, Dept. of Physiology-Biophysics, Randolph Field, Texas. *Physiologist.* (**1,** 1955)

Bandurski, Robert S., Ph.D. Michigan State College, Dept. of Botany, East Lansing. (**2,** 1954)

Bang, Frederik B., M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. in Medicine.* (**4,** 1947; **6,** 1953)

Barclay, Ralph K., Ph.D. Sloan-Kettering Inst., New York City 21. *Associate.* (**2,** 1955)

Bard, Philip, Ph.D., Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore, Md. *Prof. and Dir. of Dept. of Physiology; Dean of Med. Faculty.* (**1,** 1929)

Barger, A. Clifford, M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston 15, Mass. *Assoc. Prof.* (**1,** 1950)

Barker, H. A., Ph.D. Univ. of California, 337 Biochemistry-Virus Lab., Berkeley 4. *Prof. of Plant Biochemistry.* (**2,** 1946)

Barker, Harold G., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Asst. Prof. of Clin. Surgery.* (**1,** 1954)

Barker, S. B., Ph.D. Univ. of Alabama, Birmingham 3. *Prof. of Pharmacology.* (**1,** 1938; **3,** 1954)

Barlow, O. W., M.D., Ph.D. 3 Warwick Rd., Winchester, N. H. (**3,** 1944)

Barnard, John W., Ph.D. Marquette Med. School, Dept. of Anatomy, Milwaukee, Wis. *Professor.* (**1,** 1953)

Barnes, B. O., M.D., Ph.D. 1160 S. Colorado Blvd., Denver 20, Colo. (**1,** 1932)

Barnes, Frederick W., Jr., M.D., Ph.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assoc. Prof. of Medicine and of Physiological Chemistry, Johns Hopkins Univ. School of Medicine.* (**2,** 1953)

Barnes, LaVerne A., Ph.D. USN Preventive Medicine Unit No. 6, Navy No. 128, % FPO, San Francisco, Calif. *Cdr., MSC, USN.* (**6,** 1931)

Barnes, Richard Henry, Ph.D. Sharp & Dohme. Div. of Merck & Co., West Point, Pa. *Assoc. Dir. of Research.* (**2,** 1941; **5,** 1944)

Barnes, Thomas C., D.Sc. Hahnemann Med. College and Hosp. of Philadelphia, Philadelphia, Pa. *Assoc. Prof. of Pharmacology; Electroencephalographer of Hahnemann Hospital.* (**1,** 1942; **3,** 1948)

Barnett, Henry L., M.D. Albert Einstein College of Medicine, Dept. of Pediatrics, New York City 61. *Prof. and Chairman of Dept.* (**1,** 1952)

Barnum, Cyrus P., Jr., Ph.D. Univ. of Minnesota, 212 Millard Hall, Minneapolis 14. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1946)

Barott, Herbert G., E.E. 1307 Noyes Dr., Silver Spring, Md. (**5R,** 1938)

Barron, Donald H., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Prof. of Physiology.* (**1,** 1943)

Barron, E. S. Guzman, M.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Prof. of Biochemistry* (**2,** 1931)

Bartlett, Grant R., Ph.D. Scripps Metabolic Clinic, La Jolla, Calif. *Research Assoc.* (**2,** 1951)

Bartlett, Paul D., Ph.D. Edsel B. Ford Inst. for Med. Research, Henry Ford Hospital, Detroit 2, Mich. *Sr. Assoc. in Biochemistry.* (**2,** 1950)

Bartley, S. Howard, Ph.D. 348 Cowley, East Lansing, Mich. *Prof. of Psychology, Michigan State College.* (**1,** 1935)

Basinski, Daniel H., Ph.D. Dept. of Laboratories, Henry Ford Hospital, Detroit 2, Michigan. *Assoc. Chemist.* (**2,** 1953)

Bass, Allan D., M.D. Vanderbilt Univ., School of Medicine, Nashville, Tenn. *Prof. of Pharmacology; Head of Department.* (**3,** 1944)

Bass, David E., Ph.D. QM Research and Development Ctr., Environmental Protection Div., Natick, Mass. *Chief, Biochemistry Sec.; Lecturer on Physiology, Boston Univ. School of Medicine.* (**1,** 1955)

Bass, William B., Ph.D. The Upjohn Co., Pharmacology Research Dept., Kalamazoo, Mich. *Research Pharmacologist.* (**3,** 1955)

Batchelder, Esther L., Ph.D. 8 Devon Rd., Silver Spring, Md. *Asst. Chief, Human Nutrition Research Branch, USDA.* (**5,** 1933)

Bateman, John B., Ph.D. Camp Detrick, Frederick, Md. *Special Asst. in Biophysics.* (**1,** 1945)

Bates, Robert W., Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Hormone Chemist.* (**2,** 1936)

Batson, Herbert C., Ph.D. Illinois Dept. of Public Health, Div. of Labs., 1800 W. Fillmore St., Chicago 12. *Prof. of Biostatistics, Univ. of Ill. College of Medicine, Dept. of Public Health.* (**6,** 1949)

Batterman, Robert C., M.D. New York Med. College, 25 Central Park West, New York City. *Assoc. Clin. Prof. of Medicine.* (**3,** 1941)

Bauer, J. H., M.D. The Rockefeller Foundation, 49 W. 49th St., New York City 20. (**4,** 1935)

Bauer, Robert O., M.D. USAF School of Aviation Medicine, Randolph Field, Texas. *Chief, Pharmacology Unit.* (**3,** 1955)

Bauer, Walter, M.D. Massachusetts General Hospital, Boston. *Chief, Med. Services, Mass. Gen. Hospital; Jackson Prof. of Clin. Medicine, Harvard Med. School.* (**1,** 1929)

Bauernfeind, J. C., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Chief of Applied Nutrition.* (**5,** 1947)

Baumann, Carl A., Ph.D. Univ. of Wisconsin, Biochemistry Dept., Madison. *Prof. of Biochemistry.* (**2,** 1938; **5,** 1938)

Baumann, Emil J., Ph.D. 7 Church Lane, Scarsdale, N. Y. *Chemist, Montefiore Hospital.* (**2,** 1922)

Baumberger, J. Percy, Sc.D. Physiology Dept., Stanford Univ., Stanford, Calif. *Prof. of Physiology.* (**1,** 1921)

Baxter, James H., M.D. Natl. Heart Inst., Lab. of Metabolism, NIH, Bethesda, Md. (**3,** 1948)

Bayne-Jones, Stanhope, M.D. Research and Development Div., Office of the Surgeon Gen., Dept. of the Army, Washington 25, D. C. (**4,** 1927; **6,** 1917)

Beach, Eliot F., Ph.D. Metropolitan Life Insurance Co., 1 Madison Ave., New York City 10. *Dir., Biochemical Lab.* (**2,** 1941; **5,** 1942)

Beadle, Buell W., Ph.D. Geo. W. Gooch Labs., 2580 E. 8th St., Los Angeles 23, Calif. *General Manager.* (**2,** 1947)

Beamer, Parker R., M.D., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Prof. of Pathology.* (**4,** 1955)

Bean, John W., Ph.D., M.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (**1,** 1932)

Beard, Howard H., Ph.D. Terrell's Labs. of Clin. Medicine, Med. Arts Bldg. Rm 24, Fort Worth, Tex. *Chief Chemist.* (**2,** 1928)

Beard, Joseph W., M.D. Duke Hospital, Durham, N. C. *Prof. of Surgery; Assoc. Prof. of Virology.* (**4,** 1938; **6,** 1940)

Beaton, John R., Ph.D. Defence Research Board, Med. Sec., Ottawa, Canada. *Scientific Staff Officer.* (**2,** 1955)

Beatty, Clarissa H., Ph.D. Univ. of Oregon Med. School, Portland. *Asst. Prof.* (**1,** 1949)

Beazell, J. M., Ph.D., M.D. 1027 So. Tejon, Colorado Springs, Colo. (**1,** 1939)

Beck, Claude S., M.D. Lakeside Hospital, Cleveland, Ohio. *Prof. of Cardiovascular Surgery, Western Reserve Univ.; Assoc. Surgeon, Lakeside Hospital.* (**4,** 1930)

Beck, Ivan Thomas, M.D. Univ. of Montreal, Dept. of Pharmacology, Montreal, Canada. *In charge of course of Pharmacology.* (**3,** 1951)

Beck, Lyle V., Ph.D. Univ. of Pittsburgh School of Medicine, Dept. of Physiology and Pharmacology, Pittsburgh 13, Pa. *Assoc. Prof.* (**1,** 1941)

Becker, Elery R., D.Sc. Iowa State College, Dept. of Zoology and Entomology, Ames. *Prof.* (**6,** 1951)

Becker, Elmer L., Ph.D. M.D. Army Med. Service Grad. School, Immunology Div., Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Dept. of Immunochemistry.* (**6,** 1952)

Becker, R. Frederick, Ph.D. Duke Univ. Med. School, Dept. of Anatomy, Durham, N. C. *Assoc. Prof.* (**1,** 1949)

Beckman, Harry, M.D. Marquette Univ. School of Medicine, Milwaukee, Wis. *Dir. of Dept. of Pharmacology.* (**3,** 1937)

Beecher, Henry K., M.D. Massachusetts General Hospital, Boston. *Anesthetist-in-Chief; Dorr Prof. of Research in Anesthesia, Harvard Med. School.* (**1,** 1951; **3,** 1940)

Beerstecher, Ernest, Jr., Ph.D. Univ. of Texas, School of Dentistry, P. O. Box 8277, Houston. *Asst. Prof. of Biochemistry.* (**2,** 1950)

Beeson, W. M., Ph.D. Purdue Univ., Dept. of Animal Husbandry, Lafayette, Ind. *Professor.* (**5,** 1952)

Begg, R. W., M.D., Ph.D. Univ. of Western Ontario, Dept. of Med. Research, London, Canada. *Assoc. Prof.* (**2,** 1954)

Behnke, Albert R., M.D. U. S. Naval Radiological Defense Lab., San Francisco 24, Calif. *Radiological Med. Dir.* **(1,** 1946)

Beher, William T., Ph.D. Henry Ford Hosp., Detroit 2, Mich. *Research Assoc., Edsel B. Ford Inst. for Med. Research and Wayne Univ.* **(2,** 1955)

Behre, Jeanette Allen, Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Biochemistry, 630 W. 168th St., New York City 32. *Asst. Prof.* **(2,** 1925)

Behrens, Otto K., Ph.D. Lilly Research Labs., Eli Lilly and Co., Indianapolis 6, Ind. *Dir., Div. of Biochemistry.* **(2,** 1949)

Behrmann, Vivian G., Ph.D. Henry Ford Hospital, 2799 W. Grand Blvd., Detroit 2, Mich. *Research Physiologist.* **(1,** 1948)

Beidler, Lloyd M., Ph.D. Florida State Univ., Dept. of Physiology, Tallahassee. *Assoc. Prof.* **(1,** 1955)

Beinert, Helmut, Dr. Rer. Nat. Inst. for Enzyme Research, Univ. of Wisconsin, 1702 University Ave., Madison 5. *Asst. Prof.* **(2,** 1953)

Beiser, Sam M., Ph.D. 92 Pleasant St., Dumont, N. J. *Assoc. in Microbiology, Columbia Univ.* **(6,** 1953)

Belding, David L., M.D. Boston Univ. School of Medicine, Boston, Mass. *Prof. Emeritus of Bacteriology and Exper. Pathology.* **(4,** 1927)

Belding, Harwood S., Ph.D. Univ. of Pittsburgh, Grad. School of Public Health, Dept. of Occupational Health, Pittsburgh 13, Pa. *Prof. of Environmental Physiology.* **(1,** 1945)

Belford, Julius, Ph.D. State Univ. of New York College of Medicine, 350 Henry St., Brooklyn 1. *Assoc. Prof.* **(3,** 1954)

Belkin, Morris, Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Prin. Pharmacologist.* **(3,** 1949)

Bell, E. T., M.D. 110 Anatomy Bldg., Univ. of Minnesota, Minneapolis. *Prof. Emeritus of Pathology.* **(4,** 1931)

Bender, M. B., M.D. New York Univ. College of Medicine, New York City. *Prof. of Clin. Neurology; Dir., Neurology, Mt. Sinai Hosp.* **(1,** 1947)

Bendich, Aaron, Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Assoc. Prof. Biochemistry, Cornell Univ. Med. College.* **(2,** 1950)

Benditt, Earl P., M.D., D.Sc. Univ. of Chicago Clinics, Dept. of Pathology, Chicago 37, Ill. *Assoc. Prof.* **(4,** 1947)

Benedict, Francis G., Ph.D., M.D. Machiasport, Maine. **(1R,** 1904; **2R,** 1906)

Benesch, Reinhold, Ph.D. Univ. of Wisconsin, Enzyme Inst., Madison. **(2,** 1952)

Benham, Olive Ray, B.S. Connecticut State Dept. of Health, Bureau of Labs., Hartford. *Chief Serologist.* **(6,** 1944)

Benjamin, Fred B., D.M.D., Ph.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Asst. Prof. of Physiology.* **(1,** 1955)

Bennett, A. Lawrence, Ph.D., M.D. Univ. of Nebraska College of Medicine, Omaha. *Prof. of Physiology and Pharmacology.* **(1,** 1941)

Bennett, Edward L., Ph.D. Univ. of California, Donner Radiation Lab., Berkeley 4. *Research Chemist.* **(2,** 1955)

Bennett, Granville A., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Pathology and Dean, College of Medicine.* **(4,** 1931)

Bennett, H. Stanley, M.D. Univ. of Washington School of Medicine, Seattle. *Prof. of Anatomy.* **(1,** 1946)

Bennett, Ivan L., Jr., M.D. Johns Hopkins Hosp., 1140 RUI Bldg., Baltimore 5, Md. *Head, Biological Div., Dept. of Medicine.* **(6,** 1954)

Bennett, Leslie L., M.D., Ph.D. Univ. of California, Berkeley 4. *Prof. of Physiology.* **(1,** 1945)

Bennett, Mary Adelia, Ph.D. Lankenau Hospital Research Inst., 7701 Burholme St., Fox Chase, Philadelphia 11, Pa. *Research Biochemist.* **(2,** 1941)

Bennett, Warren A., M.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. of Pathology, Univ. of Minnesota.* **(4,** 1952)

Benson, Andrew A., Ph.D. State Univ. of Pennsylvania, Dept. of Agric. and Biological Chemistry, University Park. *Assoc. Prof.* **(2,** 1955)

Benson, Clara C., Ph.D. 160 Dorset St., West. Port Hope, Ontario, Canada. *Prof. Emeritus of Food Chemistry, Univ. of Toronto.* **(2R,** 1906)

Benson, Otis O., Jr., M.D. Office of the Surgeon General, Headquarters, USAF, Washington 25, D. C. *Brig. Gen. USAF (MC); Dir., Med. Staffing and Education.* **(1,** 1951)

Benson, Wilbur M., Ph.D., M.D. Hoffmann-LaRoche Inc., Nutley, N. J. *Sr. Pharmacologist; Chairman of Dept. of Pharmacology.* **(3,** 1954)

Bentley, Ronald, Ph.D. Univ. of Pittsburgh Grad. School of Public Health, Pittsburgh 13, Pa. *Asst. Prof. of Biochemistry.* **(2,** 1954)

Benton, Joseph G., Ph.D., M.D. New York Univ. College of Medicine, New York City 16. *Asst. Prof. of Physical Medicine and Rehabilitation.* **(3,** 1949)

Benzinger, Theodore, M.D., D.Sc. Naval Med. Research Inst., Bethesda 14, Md. *Head, Calorimetry Branch.* **(1,** 1950)

Berg, Benjamin N., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Pathology.* **(4,** 1928)

Berg, Clarence P., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Chemistry Bldg., Iowa City. *Prof. of Biochemistry.* **(2,** 1933; **5,** 1936)

Berg, Paul, Ph.D. Washington Univ. School of Medicine, Dept. of Microbiology, St. Louis 10, Mo. *Asst. Prof.* **(2,** 1955)

Berge, Trygve O., Ph.D. Sixth Army Area Med. Lab., Fort Baker, Calif. *Chief, Immunology Branch.* **(6,** 1954)

Bergeim, Olaf, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. of Biochemistry.* **(1,** 1916; **2R,** 1914)

Bergen, John R., Ph.D. Worcester Fndn. for Exptl. Medicine, Shrewsbury, Mass. *Staff Member.* **(1,** 1955)

Berger, Eugene Y., M.D. 3640 Johnson Ave., New York 63, N. Y. *Asst. Prof. of Medicine, N. Y. U. College of Medicine.* **(1,** 1953)

Berger, F. M., M.D. 227 Prospect Ave., Princeton, N. J. *Dir., Wallace Labs., New Brunswick, N. J.* **(3,** 1949)

Bergeron, Georges A., M.D. Laval Univ. Med. School, Dept. of Human Physiology, Quebec, Canada. *Prof. of Physiology.* **(1,** 1955)

Bergmann, Werner, Ph.D. Yale Univ., Sterling Chemistry Lab., New Haven, Conn. *Prof. of Chemistry.* **(2,** 1934)

Berlin, Nathaniel I., M.D., Ph.D. Armed Forces Special Weapons Project, Washington 25, D. C. *Lt. Cdr., MC, USNR.* **(1,** 1954)

Berliner, Robert W., M.D. Natl. Heart Inst., NIH, Bethesda, Md. *Assoc. Dir. in charge of Research.* **(1,** 1950)

Berman, David T., Ph.D. Univ. of Wisconsin, Veterinary Science Dept., Madison 6. *Assoc. Prof.* **(6,** 1955)

Bernard, Richard, Ph.D. Laval Univ., Dept. of Biology, Blvd. de l'Entente, Quebec, Canada. *Prof. of Physiology.* **(1,** 1947)

Berne, Robert M., M.D. Western Reserve Univ. Med. School, Dept. of Physiology, Cleveland 6, Ohio. *Assoc. Prof.* **(1,** 1951)

Bernfeld, Peter, Ph.D. New England Center Hospital, Boston 11, Mass. *Assoc. Prof. of Biochemistry, Tufts Univ. Med. School.* **(2,** 1952)

Bernheim, Frederick, Ph.D. Box 3109. Duke Univ. Med. School, Durham, N. C. *Prof. of Pharmacology.* **(2,** 1933; **3,** 1935)

Bernheimer, Alan Weyl, Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Assoc. Prof. of Microbiology.* **(6,** 1951)

Bernthal, Theodore G., M.D. Med. College of South Carolina, Dept. of Physiology, Charleston 16. *Prof. and Head of Dept.* **(1,** 1932)

Berry, George Packer, M.D. Harvard Med. School, Boston 15, Mass. *Dean and Prof. of Bacteriology.* **(6,** 1934)

Berryman, George H., Ph.D., M.D. Abbott Labs., No. Chicago, Ill. *Head of Clin. Investigation; Clin. Asst. Prof. of Medicine, Univ. of Illinois.* **(1,** 1949)

Bessey, Otto A., Ph.D. Univ. of Texas Med. Branch, Dept. of Biochemistry and Nutrition, Galveston. *Professor.* **(2,** 1938; **5,** 1943)

Bessman, Samuel P., M.D. Children's Hospital, Washington, D. C. *Dir. Biochemical Research; Asst. Clin. Prof. Pediatrics, George Washington Univ.* **(2,** 1954)

Best, Charles H., M.D., D.Sc. Univ. of Toronto, Toronto, Ontario, Canada. *Dir. of Banting and Best Dept. of Med. Research and Dept. of Physiology.* **(1,** 1923; **2,** 1923)

Bethell, Frank H., M.D. 409 Lenawee Drive, Ann Arbor, Mich. *Prof. of Internal Medicine and Assoc. Dir. of the Thomas Henry Simpson Memorial Inst.* **(4,** 1936)

Bethke, Roland M., Ph.D. Ralston Purina Co., 835 S. 8th St., St. Louis 2, Mo. *Vice Pres. and Dir. of Research.* **(2,** 1928; **5,** 1933)

Beutner, R., Ph.D., M.D. Des Moines Still College of Osteopathy and Surgery, Des Moines, Ia. *Assoc Prof., Pharmacology.* **(1R,** 1924; **3,** 1924)

Bevans, Margaret. Columbia Research Div., Goldwater Memorial Hospital, Welfare Island, New York City. *Assoc. Prof. of Pathology, Columbia Univ.* **(4,** 1952)

Beyer, Karl H., Ph.D., M.D. Sharp & Dohme, Div. of Merck & Co., Inc., Research Labs., West Point, Pa. *Asst. Dir. of Research.* **(1,** 1942; **3,** 1944)

Bickford, Reginald G., M.D. Mayo Clinic, Section on Physiology, Rochester, Minn. *Head of Lab. of Neurophysiology and Electroencephalography.* **(1,** 1949)

Biddulph, Clyde, Ph.D. Directorate of Flying Safety Research, Med. Safety Div., Office of the Inspector Gen. USAF, Norton Air Force Base, San Bernardino, Calif. *Lt. Col. USAF.* **(1,** 1952)

Bier, Otto, M.D. Escola Paulista de Medicina, Caixa Postal 7144, São Paulo, Brazil. *Head.* **(6,** 1947)

Bieri, John G., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, Lab. of Biochemistry and Nutrition, NIH, Bethesda 14, Md. *Biochemist.* **(5,** 1954)

Bierman, Howard R., M.D. City of Hope Med. Ctr., Duarte, Calif. *Med. and Scientific Dir., Hosp. for Tumors and Allied Diseases.* **(3,** 1950)

Bieter, Raymond N., M.D., Ph.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Pharmacology.* **(3,** 1930)

Bills, Charles E., Ph.D. 6403 Murray Hill Rd., Baltimore 12, Md. *Consultant.* **(2,** 1928; **5,** 1935)

Bing, Franklin C., Ph.D. 30 N. La Salle St., Chicago 2, Ill. *Consulting Chemist.* **(2,** 1931; **5,** 1934)

Bing, Richard J., M.D. Med. College of Alabama, Birmingham. *Prof. of Experimental Medicine.* **(1,** 1942)

Binkley, Francis, Ph.D. Emory Univ., Dept. of Biochemistry, Emory University, Ga. *Professor.* **(2,** 1947)

Binkley, Stephen Bennett, Ph.D. Univ. of Illinois

College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Biochemistry.* (**2,** 1941)

Bird, Francis H., Ph.D. Eastern States Farmers' Exchange, Inc., Feed Research Ctr., Rockville, RFD 3, Conn. *Assoc. in Feed Research.* (**5,** 1951)

Bird, Herbert R., Ph.D. Univ. of Wisconsin College of Agriculture, Dept. of Poultry Husbandry, Madison 6. *Professor.* (**5,** 1947)

Bird, Orson D., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Lab. Dir. in Nutritional Research.* (**2,** 1947)

Bird, Robert M., M.D. Univ. Hospital, Dept. of Medicine, Oklahoma City, Okla. *Assoc. Prof.* (**1,** 1950)

Birnbaum, Sanford M., Ph.D. Natl. Cancer Inst., Lab. of Biochemistry, Bethesda 14, Md. *Sr. Asst. Scientist.* (**2,** 1953)

Birnie, James H., Ph.D. Morehouse College, Dept. of Biology, Atlanta, Ga. *Prof. and Chairman of Dept.* (**1,** 1952)

Birren, James E., Ph.D. Natl. Inst. of Mental Health, NIH, Bethesda 14, Md. *Chief, Sec. on Aging.* (**1,** 1950)

Bisbey, Bertha, Ph.D. 1402 Bass Ave., Columbia, Mo. *Prof. of Nutrition, Univ. of Missouri.* (**5R,** 1933)

Bischoff, Fritz E., Ph.D. Santa Barbara Cottage Hospital, Santa Barbara, Calif. *Dir. of Research.* (**2,** 1928; **5,** 1933)

Bishop, George H., Ph.D. Washington Univ. Med. School, Euclid and Kingshighway, St. Louis, Mo. *Prof. of Neurophysiology.* (**1,** 1923)

Biskind, Gerson R., M.D. 450 Sutter St., San Francisco, Calif. *Chief Pathologist; Dir. of Clin. Lab., Mt. Zion Hosp.; Assoc. Clin. Prof. of Pathology, Univ. of California Med. School.* (**4,** 1944)

Black, Alex, Ph.D. Pennsylvania State Univ., Agric. Exper. Sta., University Park. *Asst. Dir.* (**5,** 1947)

Black, Edgar C., Ph.D. Univ. of British Columbia, Dept. of Physiology, Vancouver, B. C., Canada. *Assoc. Prof. of Physiology.* (**1,** 1943)

Black, Simon, Ph.D. Natl. Insts. of Health, Natl. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Chemist.* (**2,** 1948)

Blair, Edgar A., Ph.D. Med. Field Service School, Fort Sam Houston, Tex. *Col.* (**1,** 1936)

Blair, Henry A., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Dir. of Dept. of Radiation Biology; Dir., Atomic Energy Project.* (**1,** 1934)

Blair, Joseph Reese, M.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Prof. of Military Medicine, USA; Research Assoc. in Physiology, Harvard Med. School.* (**1,** 1952)

Blake, William D., M.D. Univ. of Oregon Med. School, Dept. of Physiology, Portland 1. *Assoc. Prof. of Physiology.* (**1,** 1950)

Blanchard, Ernest W., Ph.D. Warner-Chilcott Labs., 113 W. 18th St., New York City 11. (**1,** 1946)

Blanchard, Kenneth C., Ph.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Assoc. Prof. of Pharmacology.* (**3,** 1954)

Blankenhorn, M. A., M.D. Univ. of Cincinnati, Cincinnati, Ohio. *Prof. of Medicine.* (**4,** 1932)

Blatherwick, Norman R., Ph.D. P.O. Box 5415, Daytona Beach, Fla. (**1,** 1915; **2R,** 1915; **5R,** 1934)

Blau, Nathan F., Ph.D. Veterans Admin. Center, E. Kellogg & Bradley Drive, Wichita 8, Kan. *Research Biochemist, VA Hospital.* (**2,** 1928)

Blish, Morris J., Ph.D. 4810 N. 31st St., Phoenix, Ariz. (**2,** 1944)

Bliss, Chester Ittner, Ph.D. Conn. Agricultural Exper. Station, P. O. Box 1106, New Haven. *Biometrician; Lecturer in Biometry, Yale Univ.* (**3,** 1944)

Bliss, Eleanor A., Sc.D. Bryn Mawr College, Dept. of Biology, Bryn Mawr, Pa. *Prof. of Biology; Dean of Grad. School.* (**6,** 1931)

Blivaiss, Ben B., Ph.D. Chicago Med. School, Chicago 12, Ill. *Asst. Prof. of Physiology and Pharmacology.* (**1,** 1955)

Bloch, Hubert, M.D. Public Health Research Inst. of the City of New York, Foot of E. 15th St., New York City 9. *Member; Chief of Div. of Tuberculosis.* (**6,** 1954)

Bloch, Konrad, Ph.D. Harvard Univ., Dept. of Chemistry, Cambridge 38, Mass. *Prof. of Biochemistry.* (**2,** 1944)

Block, Matthew H., Ph.D., M.D. Univ. of Colorado Med. Center, Denver. *Assoc. Prof. of Medicine.* (**4,** 1953)

Block, Richard J., Ph.D. 15 Cooper Rd., Scarsdale, N. Y. *Assoc., Dept. of Biochemistry, New York Med. College, Flower and Fifth Ave. Hospital; Dir., Biochemical Research Lab., Special Products Div., Borden Co., Yonkers.* (**2,** 1934; **5,** 1933)

Block, Walter D., Ph.D. Univ. of Michigan Med. School, Kresge Med. Research Bldg., Ann Arbor. *Assoc. Prof. of Biological Chemistry, Inst. of Ind. Health.* (**2,** 1942)

Blood, Frank R., Ph.D. Vanderbilt Univ., Dept. of Biochemistry, Nashville 4, Tenn. *Professor.* (**1,** 1950)

Bloom, Ben, Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Physiologist.* (**2,** 1955)

Bloom, William, M.D. 5520 So. Shore Dr., Chicago 37, Ill. *Prof. of Anatomy, Univ. of Chicago.* (**4,** 1930)

Bloomfield, A. L., M.D. Stanford Univ. Hospital, San Francisco, Calif. *Prof. Emeritus of Medicine.* (**3,** 1927; **4,** 1927)

Bloor, W. R., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y.

Prof. Emeritus of Biochemistry. (**1R,** 1915; **2R,** 1910)

Blum, Harold F., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Physiologist, Natl. Cancer Inst., and Visiting Prof.* (**1,** 1928)

Blum, Jacob J., Ph.D. Naval Med. Research Inst., Physical Biochemistry Div., Bethesda 14, Md. *Staff Member.* (**1,** 1955)

Blumberg, Harold, Sc.D. Endo Products, Inc., 84-40 101st St., Richmond Hill 18, N. Y. *Dir. Biological Labs.* (**3,** 1954; **5,** 1942)

Blumenstock, Julius, M.D. Veterans Admin. Hospital, Sheridan, Wyo. (**1,** 1925)

Blumenthal, Herman T., M.D., Ph.D. The Jewish Hospital, 216 S. Kingshighway, St. Louis 10, Mo. *Dir. of Labs.* (**4,** 1951)

Blumgart, Herrman L., M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Physician-in-Chief; Prof. of Medicine, Harvard Med. School.* (**1,** 1927)

Bly, Chauncey G., M.D., Ph.D. Univ. of Kansas School of Medicine, 39th and Rainbow, Kansas City 12. *Assoc. Prof. of Pathology and Oncology.* (**4,** 1951)

Bobb, J. Richard R., M.D. School of Medicine, Temple Univ., Philadelphia 40, Pa. *Asst. Prof. of Pharmacology.* (**1,** 1949)

Bock, Joseph C., Ph.D. 2324 N. 46th St., Milwaukee 10, Wis. *Prof. Emeritus of Biochemistry, Marquette Univ. Med. School; Biochemist, Milwaukee County Hospital.* (**2R,** 1916)

Bodansky, Aaron, Ph.D. 7002 58th Ave., N.E., Seattle 5, Wash. (**2R,** 1926)

Bodansky, Oscar, Ph.D., M.D. Memorial Cancer Center, 444 E. 68th St., New York City 21. *Chief, Clin. Biochemistry; Prof. of Biochemistry, Sloan-Kettering Div., Cornell Med. College.* (**2,** 1937; **3,** 1942)

Bodian, David, Ph.D., M.D. Johns Hopkins Univ., 1901 E. Madison St., Baltimore, Md. *Assoc. Prof. of Epidemiology.* (**6,** 1949)

Boell, Edgar J., Ph.D. Yale Univ., Osborn Zoological Lab., New Haven, Conn. *Ross G. Harrison Prof. of Exper. Zoology.* (**1,** 1942)

Boettiger, Edward G., Ph.D. Univ. of Connecticut, Box U-42, Storrs. *Assoc. Prof. of Zoology.* (**1,** 1950)

Boger, William P., M.D. Box 236, West Point, Pa. *Med. Dir., Sharp & Dohme, Div. of Merck & Co.* (**3,** 1948)

Bogert, L. Jean, Ph.D. Hotel Claremont, Berkeley, Calif. (**2R,** 1917)

Bohr, David F., M.D. Univ. of Michigan, Physiology Lab., Ann Arbor. *Assoc. Prof.* (**1,** 1949)

Bolliger, Adolph, Ph.D. Univ. of Sydney, Gordon Craig Research Lab., Sydney, Australia. *Dir. of Research.* (**2,** 1928)

Bollman, J. L., M.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiology, Mayo Fndn.* (**4,** 1927)

Bond, Glenn C., Ph.D., M.D. The Upjohn Co., Kalamazoo, Mich. *Asst. Dir. of Control.* (**6,** 1939)

Bondi, Amedeo, Jr., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Prof. and Head of Dept. of Bacteriology.* (**6,** 1948)

Bonner, David M., Ph.D. Yale Univ., Microbiology Dept., 310 Cedar St. New Haven, Conn. *Research Assoc., Microbiology.* (**2,** 1948)

Bonner, James, Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Biology.* (**2,** 1952)

Bonnycastle, Desmond D., M.D., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Bonsnes, Roy W., Ph.D. Cornell Univ. Med. College, Dept. of Biochemistry, 1300 York Ave., New York City 21. *Assoc. Prof.; Chemist, Woman's Clinic, N. Y. Hospital.* (**2,** 1947)

Booher, Lela E., Ph.D. 4858 E. 13th St., Tucson, Ariz. *Consultant.* (**2,** 1933; **5,** 1933)

Booker, Walter M., Ph.D. Howard Univ. School of Medicine, Washington, D. C. *Head, Dept. of Pharmacology.* (**1,** 1948; **3,** 1948)

Boone, Bert R., M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Chief, Technical Development Lab.* (**1,** 1951)

Boor, Alden K., Ph.D. Camp Detrick, Frederick, Md. *Biochemist, Chemical Corps, U.S.A.* (**2,** 1931)

Borchers, Raymond, Ph.D. Univ. of Nebraska, Dept. of Biochemistry and Nutrition, Lincoln 3. *Assoc. Prof.* (**5,** 1951)

Bordley, James, III, M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. *Director; Clin. Prof. of Medicine, Columbia Univ.* (**1,** 1938)

Borek, Ernest, Ph.D. College of the City of New York, Convent Ave. and 140th St., New York City. *Assoc. Prof., Dept. of Chemistry.* (**2,** 1947)

Borison, Herbert Leon, Ph.D. Univ. of Utah, College of Medicine, Dept. of Pharmacology, Salt Lake City. *Assoc. Prof.* (**1,** 1950; **3,** 1952)

Boroff, Daniel A., Ph.D. 212 Lakeview Ave., White Plains, N. Y. (**6,** 1947)

Borsook, Henry, M.D., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Biochemistry.* (**2,** 1931)

Boss, Willis R., Ph.D. Div. of Biology and Medicine, U. S. Atomic Energy Commission, Washington 25, D. C. *Physiologist.* (**1,** 1954)

Bosshardt, David K., Ph.D. Sharp & Dohme, Div. of Merck & Co., West Point, Pa. *Research Assoc. in Biochemistry.* (**5,** 1947)

Bostick, Warren L., M.D. Univ. of California Med. School, Dept. of Pathology, San Francisco 22. *Assoc. Prof.* (**4,** 1949)

Bosworth, Alfred Willson, A.M. R.F.D. 4, Circleville, Ohio. *Consulting Chemist.* (**2,** 1936; **5R,** 1935)

Botelho, Stella Y., M.D. Grad. School of Medicine, Dept. of Physiology and Pharmacology, Univ

of Pennsylvania, Philadelphia 4. *Asst. Prof. of Physiology and Pharmacology.* (**1,** 1954)

Bott, Phyllis A., Ph.D. Woman's Med. College of Pennsylvania, Henry Ave. and Abbottsford Rd., Philadelphia. *Prof. and Chairman of Dept. of Physiological Chemistry.* (**2,** 1938)

Botts, Dorothy Jean, Ph.D. Naval Med. Research Inst., Div. of Physical Biochemistry, Natl. Naval Med. Center, Bethesda 14, Md. *Physiologist.* (**1,** 1952)

Boucher, Robert V., Ph.D. 303 Frear Labs., Pennsylvania State Univ., University Park. *Prof. of Agricultural and Biological Chemistry.* (**5,** 1945)

Bouman, H. D., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Physical Medicine.* (**1,** 1943)

Bourne, Wesley, M.D., M.Sc. McGill Univ., Dept. of Anesthesia, Montreal, Que., Canada. *Consultant Anesthetist; Emeritus Prof. of Anesthesia.* (**3,** 1936)

Bourque, Joseph E., M.D., Ph.D. 2700 Western Ave., Park Forest, Ill. *Asst. Prof., Univ. of Illinois.* (**1,** 1949)

Bourquin, Helen, Ph.D. 1331 N. Tejon St., Colorado Springs, Colo. (**1,** 1925)

Bovarnick, Marianna R., Ph.D. Veterans Administration Hospital, Brooklyn 9, N. Y. *Lecturer, State Univ. of New York College of Medicine, New York City.* (**2,** 1953)

Bowen, William J., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, Lab. of Physical Biology, NIH, Bethesda 14, Md. *Physiologist; Sr. Scientist.* (**1,** 1948)

Bowman, Donald E., Ph.D. Indiana Univ., School of Medicine, Dept. of Biochemistry, Indianapolis, Ind. *Prof. of Biochemistry.* (**2,** 1944)

Bowman, Katherine L., B.A. Allergy Lab., Jewish Hospital of Brooklyn, Brooklyn 38, N. Y. *Research Assoc. in Allergy.* (**6,** 1946)

Boxer, George E., Ph.D. 513 Fairmont Ave., Rahway, N. J. *Sr. Biochemist, Research and Development Div., Merck & Co., Inc.* (**2,** 1946)

Boyarsky, Louis L., Ph.D. Univ. of Kentucky, Dept. of Anatomy and Physiology, Lexington. *Assoc. Prof.* (**1,** 1954)

Boyd, Eldon M., M.D. Queen's Univ., Kingston, Ontario, Canada. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1941)

Boyd, Linn J., M.D. New York Med. College and Flower & Fifth Ave. Hospitals, 1 E. 105th St., New York City 29. *Prof. of Pharmacology; Dir. of Medicine.* (**3,** 1950)

Boyd, M. John, Ph.D. Hahnemann Med. College, 235 N. 15th St., Philadelphia 2, Pa. *Prof. and Head, Div. of Biol. Chemistry.* (**2,** 1947)

Boyd, T. E., Ph.D. 9 Walworth Ave., Scarsdale, N. Y. *Asst. Dir. of Research, Natl. Fndn. for Infantile Paralysis, 120 Broadway, New York City 5.* (**1,** 1924)

Boyd, William C., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Professor.* (**6,** 1933)

Boyden, Alan A. Rutgers Univ., New Brunswick, N. J. *Prof. and Chairman of Zoology.* (**6,** 1948)

Boyden, Edward A., Ph.D. Univ. of Washington, Seattle 5. (**1,** 1929)

Boyer, Paul D., Ph.D. Univ. of Minnesota, Dept. of Physiological Chemistry, Minneapolis 14. *Hill Prof. of Enzymology.* (**2,** 1944)

Boyle, Paul E., D.M.D. Univ. of Pennsylvania School of Dentistry, 40th and Spruce Sts., Philadelphia 4. *Prof. of Oral Pathology.* (**4,** 1939)

Bozicevich, John, M.A. Natl. Insts. of Health, Bethesda, Md. *Head, Sec. of Immunology, Trop. Diseases Div.* (**6,** 1948)

Bozler, Emil, Ph.D. Ohio State Univ., Columbus. *Prof. of Physiology.* (**1,** 1932)

Bradbury, James T., Sc.D. Dept. of Obstetrics and Gynecology, University Hospital, Iowa City, Iowa. *Assoc. Prof.* (**1,** 1941)

Bradley, Harold C., Ph.D. 2639 Durant Ave., Berkeley, Calif. (**1R,** 1911; **2,** 1908)

Bradley, Stanley E., M.D. Columbia Univ. College of Physicians and Surgeons, 620 W. 168th St., New York City 32. *Assoc. Prof. of Medicine.* (**1,** 1947)

Bradley, William B., Ph.D. American Inst. of Baking, 400 E. Ontario St., Chicago 11, Ill. *Research Dir.* (**1,** 1939)

Bradlow, H. Leon, Ph.D. Sloan-Kettering Inst., 410 E. 68th St., New York City 21. *Assistant.* (**2,** 1954)

Brady, Roscoe O., M.D. Natl. Inst. of Neurological Diseases and Blindness, NIH, Bethesda 14, Md. *Chief, Sec. on Lipid Metabolism.* (**2,** 1955)

Bragdon, Joseph Henry, M.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Sr. Surgeon, PHS.* (**4,** 1950)

Branch, E. Arnold G., M.D. Lancaster Hospital, St. John, New Brunswick, Canada. *Chief, Lab. Service; Provincial Med. Dir., Red Cross Blood Transfusion Service.* (**4,** 1929)

Brand, Eugene D., M.D. Univ. of Virginia Med. School, Dept. of Pharmacology, Charlottesville. *Asst. Prof.* (**3,** 1954)

Brandes, W. W., M.D. Roosevelt Hospital, W. 59th St., New York City. (**4,** 1931)

Branham, Sara E., Ph.D., M.D., Natl. Insts. of Health, Bethesda, Md. *Prin. Bacteriologist.* (**6,** 1926)

Branion, Hugh Douglas, Ph.D. Ontario Agricultural College, Guelph, Canada. *Prof. and Head of Dept. of Nutrition.* (**5,** 1933)

Brassfield, Charles R., Ph.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (**1,** 1937)

Bratton, Andrew Calvin, Jr., M.D., Ph.D. Parke, Davis & Co., Research Labs., Detroit 32, Mich. *Dir. of Pharmacological Research.* (**3,** 1941)

Brauer, Ralph W., Ph.D. U. S. Naval Radiological Defense Lab., San Francisco 24, Calif. *Head, Pharmacology Branch.* (**3,** 1948)

Braun, Herbert A., Ph.D. Food and Drug Admin., Washington, D. C. *Pharmacologist.* (**3,** 1941)

Brazda, Fred G., Ph.D. Louisiana State Univ. School of Medicine, 1542 Tulane Ave., New Orleans 12. *Prof. of Biochemistry; Head of Dept.* (**2,** 1954)

Brazier, Mary A. B., Ph.D. Massachusetts General Hosp., Boston 14. *Neurophysiologist; Research Assoc. in Neurology, Harvard Med. School; Research Assoc. in Electrical Engineering, Massachusetts Inst. of Technology.* (**1,** 1947)

Brecher, George, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Hematology Service.* (**4,** 1949)

Brecher, Gerhard A., M.D., Ph.D. Ohio State Univ. College of Medicine, Dept. of Physiology, Columbus 10. *Professor.* (**1,** 1949)

Breedis, Charles, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Asst. Prof. of Experimental Pathology.* (**4,** 1948)

Bremer, Frederic, M.D. 115 Blvd. de Waterloo, Brussels, Belgium. *Prof. and Dir. of Dept. of Physiopathology, Univ. of Brussels.* (**1H,** 1950)

Brewer, Carl R., Ph.D. Camp Detrick, Frederick, Md. *Chief, Allied Sciences Div., U. S. Army, Chemical Corps.* (**2,** 1948)

Brewer, John H., Ph.D. Hynson Westcott and Dunning, Baltimore, Md. *Dir. of Biological Research.* (**6,** 1948)

Brewer, Nathan R., Ph.D., D.V.M. Univ. of Chicago, Chicago, Ill. *Asst. Prof. of Physiology; Supt. of Animal Qtrs.* (**1,** 1948)

Brewer, Wilma D., Ph.D. Michigan State College, Dept. of Foods and Nutrition, East Lansing. *Assoc. Prof.* (**5,** 1951)

Bridge, Edward M., M.D. Univ. of Buffalo School of Medicine, 3435 Main St., Buffalo 14, N. Y. *Prof. of Pharmacology.* (**2,** 1940; **3,** 1951)

Brieger, Heinrich, M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Prof. of Industrial Medicine.* (**3,** 1954)

Briggs, A. P., M.D. Univ. of Georgia Med. College, Augusta. *Prof. of Biochemistry.* (**2R,** 1923)

Briggs, David R., Ph.D. Univ. of Minnesota, Div. of Agricultural Biochemistry, Univ. Farm, St. Paul 1. *Prof. of Agricultural Biochemistry.* (**2,** 1946)

Briggs, George M., Ph.D. Natl. Insts. of Health, Nutrition Unit, Lab. of Biochemistry and Nutrition, Bethesda 14, Md. *Chief.* (**5,** 1947)

Brin, Myron, Ph.D. Harvard Med. School, Boston, Mass. *Instr. in Biological Chemistry; Staff Chemist, Thorndike Lab.* (**2,** 1955)

Brink, Frank, Jr., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**1,** 1942)

Brinkhous, K. M., M.D. Univ. of North Carolina School of Medicine, Dept. of Pathology, Chapel Hill. *Prof. of Pathology.* (**4,** 1939)

Briody, Bernard A., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Assoc. Prof. and Dir. of Virus Lab.* (**6,** 1951)

Britton, Sydney W., M.D. R. 1, Charlottesville, Va. (**1R,** 1925)

Brobeck, John R., M.D., Ph.D. Univ. of Pennsylvania, School of Medicine, Philadelphia 4. *Chairman, Dept. of Physiology.* (**1,** 1943)

Brodie, Bernard B., Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Chief, Lab. of Chemical Pharmacology.* (**2,** 1940; **3,** 1945)

Brodsky, William A., M.D. Univ. of Louisville, School of Medicine, Louisville, Ky. *Assoc. Prof. of Pediatrics.* (**1,** 1952)

Brody, Daniel A., M.D. Univ. of Tennessee, Memphis. *Assoc. Prof., Dept. of Medicine.* (**1,** 1953)

Brody, Samuel, Ph.D. Univ. of Missouri College of Agriculture and Agricultural Experiment Station, Dairy Building, Columbia. *Prof. of Dairy Husbandry.* (**1,** 1954; **2,** 1929; **5,** 1933)

Brody, Theodore M., Ph.D. Univ. of Michigan, Dept. of Pharmacology, Ann Arbor. *Asst. Prof.* (**3,** 1953)

Broh-Kahn, Robert H., M.D. Labs. for Pharmaceutical Develop., Inc., Yonkers, N. Y. *President.* (**1,** 1948)

Bromiley, Reginald B., Ph.D. Defense Research Med. Labs., Postal Station "K", Box 62, Toronto, Ont., Canada. *Chief, Applied Exper. Psychology Sec.* (**1,** 1949)

Bronk, Detlev W., Ph.D., Sc.D. Natl. Academy of Sciences, 2101 Constitution Ave., Washington 25, D. C. *Pres.; Pres., Rockefeller Inst. for Med. Research, New York City.* (**1,** 1927)

Brookes, Margaret C. Hessler, Ph.D. 5718 S. Dorchester Ave., Chicago 37, Ill. *Consultant, Chicago Heart Assn.* (**5,** 1935)

Brookhart, John M., Ph.D. Univ. of Oregon School of Medicine, Dept. of Physiology, Portland. *Prof. and Head of Dept.* (**1,** 1946)

Brooks, Chandler McCuskey, Ph.D. State Univ. of New York, College of Medicine at New York City, Dept. of Physiology and Pharmacology, Brooklyn 1. *Prof. and Chairman of Dept.* (**1,** 1934; **3,** 1950)

Brooks, Clyde, Ph.D., M.D. Station 3, Tuscaloosa, Ala. (**1,** 1910; **3,** 1912)

Brooks, Matilda Moldenhauer, Ph.D. Univ. of California, Dept. of Physiology, Berkeley. *Research Assoc. in Biology.* (**1,** 1923)

Broquist, Harry P., Ph.D. Research Div., American Cyanamid Co., Pearl River, N. Y. *Head, Dept. of Microbiology.* (**2,** 1951)

Brouha, Lucien, M.D., D.Sc. DuPont Co., Haskell Lab., Wilmington, Del. *Physiologist.* (**1,** 1953)

Broun, Goronwy Owen, M.D. 1325 S. Grand Blvd., St. Louis, Mo. *Prof. of Internal Medicine, St. Louis Univ.* (**4,** 1927)

Brown, Barbara Banker, Ph.D. Wm. S. Merrell Co., Pharmacology Dept., Cincinnati 15, Ohio. *Head, Sec. on Gen. Pharmacology.* (**3,** 1951)

Brown, Claude P., M.D. 1930 Chestnut St., Philadelphia, Pa. *Practicing Clin. Pathologist.* (**6,** 1913)

Brown, David Henry, Ph.D. Washington Univ. Med. School, Dept. of Biological Chemistry, St. Louis 10, Mo. *Asst. Prof.* (**2,** 1954)

Brown, Dugald E. S., Ph.D. Univ. of Michigan, Dept. of Zoology, Ann Arbor. (**1,** 1932)

Brown, Edgar D., Pharm. D., M.D. Paynesville, Minn. *Retired.* (**1R,** 1907; **3R,** 1909)

Brown, Ellen, M.D. Univ. of California Med. Center, Dept. of Medicine, San Francisco 22. *Assoc. Prof.* (**1,** 1954)

Brown Ernest B., Jr., Ph.D. Univ. of Minnesota, Dept. of Physiology, Minneapolis. *Professor.* (**1,** 1950)

Brown, Ethan Allan, L.R.C.P. (London), M.R.C.S. (England). 75 Bay State Rd., Boston, Mass. (**6,** 1946)

Brown, Frank A., Jr., Ph.D. Northwestern Univ., Dept. of Biological Sciences, Evanston, Ill. *Prof. and Chairman of Dept.* (**1,** 1940)

Brown, George B., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Head, Div. of Protein Chemistry; Prof. of Biochemistry, Sloan-Kettering Div., Cornell Univ. Med. College.* (**2,** 1947)

Brown, Gordon Campbell, Sc.D. School of Public Health, Ann Arbor, Mich. *Prof. of Epidemiology.* (**6,** 1949)

Brown, J. H. U., Ph.D. Emory Univ., School of Medicine, Dept. of Physiology, Emory, Ga. *Assoc. Prof.* (**1,** 1952)

Brown, John B., Ph.D. Ohio State Univ., Columbus. *Prof. of Physiological Chemistry and Dir., Inst. of Nutrition and Food Technology.* (**2,** 1927; **5,** 1934)

Brown, R. A., Ph.D. Parke, Davis & Co., Sec. #18, Detroit 32, Mich. *Dir. of Bio-Assay Div.* (**5,** 1946)

Brown, Rachel, Ph.D. 26 Buckingham Drive, Albany, N. Y. *Assoc. Biochemist, Div. of Labs. and Research, N. Y. State Dept. of Health.* (**6,** (1933)

Brown, Robert V., Ph.D. Chemical Corps Med. Labs., Army Chemical Ctr., Md. (**1,** 1945; **3,** 1950)

Browne, J. S. L., M.D., Ph.D. McGill Univ., Dept. of Investigative Medicine, Montreal, Canada. *Professor.* (**1,** 1934)

Brownell, Katharine A., Ph.D. Ohio State Univ., Dept. of Physiology, Columbus. *Asst. Prof.* (**1,** 1943)

Brozek, Josef, Ph.D. Univ. of Minnesota, Stadium South Tower, Minneapolis 14. *Prof., Lab. of Physiological Hygiene, School of Public Health.* (**1,** 1947)

Brues, Austin M., M.D. Argonne National Labs., P.O. Box 299, Lemont, Ill. *Dir. of Biology Div.* (**1,** 1940)

Bruesch, S. R., M.D., Ph.D. Univ. of Tennessee, Div. of Anatomy, Memphis 3. *Prof. of Anatomy.* (**1,** 1949)

Bruger, Maurice, M.D., M.Sc. 301 E. 20th St., New York City 3. *Assoc. Prof. of Medicine, New York Univ. Post-Grad. Med. School; Dir., Dept. of Clin. Pathology, New York Univ. Hosp.* (**2,** 1935; **5,** 1935)

Bruhn, John M., Ph.D. Univ. of Alabama Med. Ctr., Dept. of Physiology, Birmingham 5. *Professor.* (**1,** 1939).

Bruner, Harry Davis, M.D., Ph.D. Emory Univ., Dept. of Physiology, Emory University, Ga. *Chairman of Dept.* (**1,** 1954; **3,** 1945)

Brunschwig, Alexander, M.D. Cornell Univ. Med. College, New York City. *Prof. of Clin. Surgery; Attending Surgeon, Memorial Hosp.* (**4,** 1937)

Bryan, W. Ray, Ph.D. 4405 Bywood Lane, Bethesda, Md. *Biologist, Natl. Cancer Inst., NIH.* (**1,** 1934; **4,** 1940; **6,** 1954)

Buchanan, Donald L., M.D. V.A. Hosp., West Haven 16, Conn. *Dir., Radioisotope Unit.* (**2,** 1954)

Buchanan, John M., Ph.D. Massachusetts Inst. of Technology, Div. of Biochemistry, Dept. of Biology, 77 Mass. Ave., Cambridge 39. *Prof. and Head of Div. of Biochemistry.* (**2,** 1949)

Buchbinder, Leon, Ph.D. Dept. of Health, 125 Worth St., New York City. *Asst. Dir., Bur. of Labs.* (**6,** 1934)

Buchbinder, William C., M.D. 1893 Sheridan Rd., Highland Park, Ill. *Assoc. Prof. of Medicine, Northwestern Univ. Med. School; Attending in Medicine, Michael Reese Hosp.; Consultant in Medicine, Highland Park Hosp.* (**1,** 1940)

Buckner, G. Davis, Ph.D. Kentucky Agricultural Exper. Station, Lexington. *In charge of Animal Nutrition.* (**2R,** 1920)

Bucy, Paul C., M.D. 5830 Stony Isld. Ave., Chicago 37, Ill. *Prof. of Surgery, Northwestern Univ. Med. School.* (**1,** 1933)

Buddingh, G. John, M.D. Louisiana State Univ. School of Medicine, New Orleans. *Prof. of Microbiology; Head of Dept.* (**4,** 1940)

Bueding, Ernest, M.D. Louisiana State Univ. School of Medicine, New Orleans 12, La. *Prof. of Pharmacology.* (**2,** 1946; **3,** 1949)

Buell, Mary V., Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago 37, Ill. *Assoc. Prof.* (**2,** 1921)

Buettner, K., Ph.D. Univ. of Washington, Dept. of Meteorology, Seattle 5. *Acting Assoc. Prof. of Meteorology and Research Physiologist.* (**1,** 1955)

Bugher, John C., M.D. The Rockefeller Foundation, 49 W. 49th St., New York City 20. *Dir. for Med. Education and Public Health.* (**4,** 1935)

Bukantz, Samuel C., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Clin. Medicine.* (**6,** 1943)

Bulatao, Emilio, M.D. Univ. of the Philippines, Manila, P. I. *Prof. of Physiology and Biochemistry.* (**1,** 1924)

Bull, Henry B., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Prof. and Head of Dept.* (**2,** 1937)

Bullock, Theodore H., Ph.D. Univ. of California, Los Angeles. *Prof. of Zoology.* (**1,** 1948)

Bunde, Carl A., M.D., Ph.D. Pitman-Moore Co., Indianapolis 6, Ind. *Research Dir.* (**1,** 1943)

Bunker, John P. Massachusetts Gen. Hosp., Dept. of Anesthesia, Boston. *Asst. Clin. Prof. of Anesthesia, Harvard Med. School.* (**3,** 1954)

Bunney, William Edward, Ph.D. E. R. Squibb and Sons, Div. of Olin Mathieson Chemical Corp., New Brunswick, N. J. *Vice Pres.; Dir. of Manufacturing Operations.* (**6,** 1931)

Bunting, Charles H., M.D. 50 Broad Ripple Dr., Princeton, N. J. *Prof. Emeritus of Pathology, Univ. of Wisconsin.* (**4R,** 1913)

Bunzell, H. H., Ph.D. Box 44, General Post Office, New York City 1. *Dir. of Bunzell Labs.* (**2R,** 1908)

Burchell, Howard B., M.D., Ph.D. Rochester, Minn. *Prof. in Medicine, Mayo Foundation; Consultant in Medicine, Mayo Clinic.* (**1,** 1942)

Burchenal, Joseph H., M.D. Cornell Univ. Med. College, Sloan-Kettering Div., New York City 21. *Prof. of Medicine.* (**5,** 1954)

Burdick, H. O., Sc.D. Alfred Univ., Alfred, N. Y. *Prof. and Chairman of Dept. of Biology.* (**1,** 1940)

Burdon, Kenneth L., Ph.D. Baylor Univ. College of Medicine, Houston, Tex. *Prof. of Microbiology; Chairman of Dept.; Consultant, Veterans Administration Hospital.* (**6,** 1936)

Burgen, A. S. V., M.B., MRCP. McGill Univ., Dept. of Physiology, Montreal, Quebec, Canada. *Professor.* (**1,** 1950; **3,** 1950)

Burk, Dean, Ph.D. Natl. Cancer Inst., Bethesda, Md. *Head Chemist, PHS.* (**2,** 1939)

Burke, Bertha S., M.A. Harvard School of Public Health, 55 Shattuck St., Boston 15, Mass. *Assoc. Prof. of Maternal and Child Nutrition.* (**5,** 1952)

Burke, John C., Ph.D. E. R. Squibb and Sons, Div. of Pharmacology, New Brunswick, N. J. *Dept. Head.* (**3,** 1953)

Burn, J. Harold, M.D. Oxford Univ., Oxford, England. *Prof. in charge of Dept. of Pharmacology.* (**3,** 1954)

Burns, B. Delisle, B.A. McGill Univ., Dept. of Physiology, Montreal, Canada. *Assoc. Prof.* (**1,** 1954)

Burns, Edward L., M.D. Mercy Hospital, Toledo, Ohio. *Pathologist.* (**4,** 1939)

Burns, John J., Ph.D. New York Univ. Research Div., Goldwater Memorial Hosp., Welfare Island, New York City. *Adjunct Asst. Prof. of Biochemistry, NYU School of Medicine.* (**3,** 1954)

Burr, George O., Ph.D. Exper. Station. H.S.P.A., Honolulu, Hawaii. *Head of Dept. of Biochemistry and Physiology.* (**2,** 1928; **5,** 1933)

Burris, Robert H., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Prof.* (**2,** 1946)

Burroughs, Wise, Ph.D. Iowa State College, Dept. of Animal Husbandry, Ames. *Prof.* (**5,** 1951)

Burrows, William, Ph.D. Univ. of Chicago, Dept. of Bacteriology, Chicago 37, Ill. *Prof. of Bacteriology.* (**6,** 1947)

Burstone, M. S., D.D.S. Natl. Insts. of Health, Bethesda 14, Md. *Dental Surgeon.* (**4,** 1955)

Burton, Alan C., Ph.D. Univ. of Western Ontario Med. School, Dept. of Biophysics, London, Ontario, Canada. *Prof. and Head of Dept.* (**1,** 1937)

Busch, Harris, M.D., Ph.D. Univ. of Illinois College of Medicine, Chicago 12, Ill. *Assoc. Prof. of Pharmacology.* (**2,** 1955)

Bush, Milton T., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Assoc. Prof. of Pharmacology.* (**3,** 1938)

Bussard, Alain, Ph.D. Pasteur Inst., Paris, France. *Researcher.* (**6,** 1952)

Butler, G. C., Ph.D. Univ. of Toronto, Dept. of Biochemistry, Toronto, Ont., Canada. *Professor.* (**2,** 1949)

Butler, Thomas C., M.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Prof. of Pharmacology.* (**3,** 1938)

Butt, Hugh R., M.D. Mayo Clinic, 200 First St., S.W., Rochester, Minn. *Consultant in Medicine; Prof. of Medicine, Mayo Foundation.* (**5,** 1942)

Butts, Joseph S., Ph.D. Oregon State College, Corvallis. *Prof. of Biochemistry and Head of Agricultural Chemistry.* (**2,** 1936; **5,** 1936)

Byerrum, Richard U., Ph.D. Michigan State Univ., Kedzie Chemical Lab., East Lansing. *Assoc. Prof. of Chemistry.* (**2,** 1954)

Byers, Sanford O., Ph.D. 1600 Divisadero St., San Francisco 15, Calif. *Research Biochemist, Harold Brunn Inst. for Cardiovascular Research, Mount Zion Hospital.* (**1,** 1949)

Cahen, Raymond L., Ph.D., M.D. Bristol-Myers Products Div., 225 Long Ave., Hillside, N. J. *Dir., Pharmacology Dept.* (**3,** 1949)

Cahill, William M., Ph.D., M.D. S. California Edison Co., 501 S. Marengo, Alhambra. *Physician and Surgeon, Med. Dept.* (**2,** 1940)

Cajori, Florian A., Ph.D. Univ. of Colorado Med. School, Denver 20. *Assoc. Prof. of Biochemistry.* (**2,** 1922; **5,** 1933)

Caldwell, Mary L., Ph.D. Columbia Univ., New

York City. *Prof. of Chemistry.* (**2,** 1924; **5,** 1933)

Calesnick, Benjamin, M.D. 1036 S. 54th St., Philadelphia 43, Pa. *Assoc. in Pharmacology, Hahnemann Med. College.* (**3,** 1951)

Callison, Elizabeth C., M.S. U. S. Dept. of Agriculture, Agricultural Research Station, Food and Nutrition Div., Bureau of Human Nutrition, Beltsville, Md. *Nutrition Physiologist.* (**5,** 1949)

Calloway, Doris H., Ph.D. QM Food and Container Inst. for the Armed Forces, Nutrition Div., 1819 W. Pershing Rd., Chicago 9, Ill. *Nutritionist.* (**5,** 1955)

Calloway, Nathaniel Oglesby, Ph.D., M.D. Med. Associates of Chicago, 5751 S. Indiana Ave., Chicago 37, Ill. (**3,** 1945)

Calvin, D. Bailey, Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Biological Chemistry and Dean of Student and Curricular Affairs.* (**1,** 1934; **2,** 1939)

Calvin, Melvin, Ph.D. Univ. of California, Berkeley 4. *Prof. of Chemistry.* (**2,** 1949)

Camien, Merrill N., Ph.D. Univ. of California at Los Angeles, Dept. of Chemistry, Los Angeles 24. *Assoc. Research Chemist.* (**2,** 1953)

Caminopetros, John, M.D. Hellenic Pasteur Inst., 103 Queen Sophie Ave., Athens, Greece. *Chief of the Service of Exper. Medicine.* (**6,** 1946)

Camp, Walter J. R., M.D., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12, Ill. *Prof. of Pharmacology and Toxicology; State Toxicologist.* (**3,** 1926)

Campbell, Berry, Ph.D. Univ. of Minnesota, Minneapolis 14. *Assoc. Prof. of Anatomy.* (**1,** 1945)

Campbell, Dan H., Ph.D. California Inst. of Technology, Pasadena. *Prof. of Immunochemistry.* (**6,** 1938)

Campbell, H. Louise, Ph.D. 916 Windsor Ave., Windsor, Conn. (**5R,** 1933)

Campbell, J. Alexander, Ph.D. Dept. of Natl. Health and Welfare, Food and Drug Div., Ottawa, Ont., Canada. *Chief, Vitamin and Nutrition Lab.* (**5,** 1950)

Campbell, James, Ph.D. Univ. of Toronto, Toronto, Ont., Canada. *Assoc. Prof. of Physiology.* (**1,** 1943)

Campbell, Walter Ruggles, M.D. 101 Douglas Drive, Toronto, Ont., Canada. *Assoc. Prof. of Medicine, Univ. of Toronto.* (**2,** 1922)

Cann, John R., Ph.D. Univ. of Colorado School of Medicine, Denver 20. *Asst. Prof. of Biophysics.* (**6,** 1955)

Cannan, R. Keith, D.Sc. Natl. Research Council, 2101 Constitution Ave., Washington, D. C. *Chairman, Div. of Med. Sciences.* (**2,** 1931)

Cannon, Paul R., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Pathology.* (**4,** 1930; **6,** 1929)

Cantarow, Abraham, M.D. Jefferson Med. College, Philadelphia 7, Pa. *Prof. of Biochemistry.* (**1,** 1932; **3,** 1935)

Cantoni, G. L., M.D. Natl. Inst. of Mental Health, NIH, Bethesda, Md. *Chief, Lab. of Cellular Pharmacology.* (**2,** 1953; **3,** 1945)

Cantrell, William F., Ph.D. Univ. of Louisville, 101 W. Chestnut St., Louisville 2, Ky. *Assoc. Prof.* (**3,** 1954)

Canzanelli, Attilio, M.D. Tufts Univ. School of Medicine, Boston, Mass. *Prof. of Physiology.* (**1,** 1934)

Capps, Robert T., M.D., Ph.D. 1300 University Ave., Madison 6, Wis. *Resident in Anesthesiology, Univ. Hosps.* (**3,** 1951).

Caputto, Ranwel, M.D. Oklahoma Med. Research Fndn., Oklahoma City 4. *Research Biochemist, Univ. of Oklahoma School of Medicine.* (**2,** 1955)

Carlson, A. J., Ph.D., M. D. Univ. of Chicago, Dept. of Physiology, Chicago 37, Ill. *Prof. Emeritus of Physiology.* (**1,** 1904; **5R,** 1933)

Carlson, Loren D., Ph.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. (**1,** 1945)

Carmichael, Emmett B., Ph.D. Univ. of Alabama Med. College and School of Dentistry, Dept. of Biochemistry, 1919 Seventh Ave., So. Birmingham 5. *Prof. and Chairman of Dept.* (**1,** 1931; **2,** 1946)

Carmichael, Leonard, Ph.D., Sc.D. Smithsonian Inst., Washington 25, D. C. *Secretary (Dir.).* (**1,** 1937)

Carnes, William H., M.D. 2398 Sacramento St., San Francisco 15, Calif. *Prof. of Pathology, Stanford Univ.* (**4,** 1951)

Carpenter, Frederick H., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Assoc. Prof.* (**2,** 1949)

Carpenter, Thorne M., Ph.D. 142 Birch Tree Drive, Westwood, Mass. (**1R,** 1915; **2R,** 1909; **5R,** 1935)

Carr, C. Jelleff, Ph.D. Purdue Univ., School of Pharmacy, Lafayette, Ind. *Prof. of Pharmacology.* (**3,** 1940)

Carr, Jesse L., M.D. San Francisco Hospital, San Francisco, Calif. *Clin. Prof. of Pathology.* (**4,** 1940)

Carrera, Guillermo M., M.D. Ochsner Fndn. Hosp., 1516 Jefferson Highway, New Orleans, La. (**4,** 1951)

Carrick, C. W., M.S.A. Purdue Univ., Lafayette, Indiana. *Prof. of Poultry Science.* (**5,** 1954)

Carruthers, Christopher, Ph.D. Roswell Park Memorial Inst., 663 N. Oak St., Buffalo 3, N. Y. *Assoc. Cancer Research Scientist.* (**2,** 1948)

Carson, Stanley F., Ph.D. Oak Ridge Natl. Lab., Biology Div., P. O. Box Y, Oak Ridge, Tenn. *Principal Biochemist.* (**2,** 1952)

Carter, Charles E., M.D. Yale Univ. School of

Medicine, 333 Cedar St., New Haven, Conn. *Assoc. Prof. of Pharmacology.* (**2**, 1950)

Carter, Herbert E., Ph.D. Univ. of Illinois, 108 Noyes Lab., Urbana. *Prof. of Biochemistry and Head of Dept.* (**2**, 1937; **5**, 1941)

Carter, John R., M.D. State Univ. of Iowa College of Medicine, Dept. of Pathology, Iowa City. *Prof. of Pathology.* (**4**, 1951)

Cartland, George F., Ph.D. The Upjohn Co., Research Dept., Kalamazoo, Mich. *Asst. Dir. of Research.* (**2**, 1936)

Cartwright, G. E., M.D. Salt Lake Gen. Hospital, Salt Lake City. *Assoc. Prof. of Medicine, Univ. of Utah.* (**5**, 1951)

Cary, Charles A., S.B. 141 N.W. 100th Terrace, Miami Shores, Fla. (**2R**, 1920)

Casas, Carmen B., Ph.D. School of Tropical Medicine, The Med. School, San Juan, Puerto Rico. *Assoc. Prof. of Physiology.* (**1**, 1952)

Casey, Albert Eugene, M.D. 2011 Southwood Rd., Birmingham 9, Ala. *Pathologist and Dir. of Labs., Baptist Hosp.; Prof. of Pathology, Med. College of Alabama.* (**4**, 1933)

Cash, James Robert, M.D. Univ. Hospital, Charlottesville, Va. *Prof. of Pathology, Univ. of Virginia.* (**4**, 1924)

Cassidy, Harold G., Ph.D. Yale Univ., Dept. of Chemistry, New Haven, Conn. *Assoc. Prof.* (**2**, 1949)

Castle, Edward S., Ph.D. Harvard Univ., Biological Labs., 16 Divinity Ave., Cambridge 38, Mass. *Assoc. Prof. of Physiology.* (**1**, 1934)

Castle, William B., M.D. Boston City Hospital, Boston, Mass. *Prof. of Medicine, Harvard Univ.; Dir. of Thorndike Memorial Lab.* (**4**, 1942)

Castleman, Benjamin, M.D. Massachusetts Gen. Hosp., Dept. of Pathology, Boston. *Chief; Clin. Prof. of Pathology, Harvard Med. School.* (**4**, 1954)

Catchpole, Hubert Ralph, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Research Assoc. Prof. of Pathology.* (**1**, 1941)

Catron, Damon, Ph.D. Iowa State College, Dept. of Animal Husbandry, Ames. *Professor.* (**5**, 1953)

Catron, Lloyd, M.D. City Hospital, Akron, Ohio. *Pathologist and Dir. of Labs.* (**4**, 1939)

Cattell, McKeen, Ph. D., M. D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Pharmacology.* (**1**, 1923; **3**, 1924)

Cavalieri, Liebe Frank, Ph.D. Sloan-Kettering Inst., 410 East 68th St., New York City 21. *Assoc.; Assoc. Prof. of Biochemistry, Sloan-Kettering Div., Cornell Med. College.* (**2**, 1953)

Cavelti, Philip A., M.D. 853 Middlefield Rd., Palo Alto, Calif. (**6**, 1947)

Cavert, H. Mead, M.D., Ph.D. Univ. of Minnesota Med. School, Dept. of Physiology, Minneapolis 14. *Asst. Prof.; Established Investigator, Am. Heart Assn.* (**1**, 1954)

Cazort, Ralph Jerry, M.D. Meharry Med. College, Nashville 8, Tenn. *Assoc. Prof. of Pharmacology.* (**3**, 1951)

Cederquist, Dena C., Ph.D. Michigan State College, School of Home Economics, East Lansing. *Assoc. Prof. of Foods and Nutrition.* (**5**, 1949)

Ceithaml, Joseph J., Ph.D. Univ. of Chicago, 947 E. 58th St., Chicago 37, Ill. *Assoc. Prof. of Biochemistry.* (**2**, 1950)

Cerecedo, Leopold R., Ph.D. Fordham Univ., Dept. of Chemistry, New York City. *Prof. of Biochemistry.* (**2**, 1931; **5**, 1945)

Chadwick, Leigh Edward, Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Entomology Br.* (**1**, 1944)

Chaikoff, I. L., Ph.D., M.D. Univ. of California, Berkeley. *Prof. of Physiology.* (**1**, 1932)

Chalkley, Harold W., Ph.D. 4609 Highland Ave., Bethesda 14, Md. (**1**, 1932)

Chamberlain, W. Edward, M.D. Temple Univ. Med. School, Philadelphia, Pa. *Prof. of Radiology.* (**1**, 1948)

Chambers, Alfred H., Ph.D. Univ. of Vermont College of Medicine, Dept. of Physiology and Biophysics, Burlington. *Assoc. Prof.* (**1**, 1946)

Chambers, Leslie Addison, Ph.D. PHS, Robert A. Taft Sanitary Engineering Ctr., 4676 Columbia Pkwy., Cincinnati 26, Ohio. *Dir. of Research.* (**1**, 1940; **6**, 1948)

Chambers, Robert, Ph.D. New York Univ., Washington Sq., New York City. *Research Prof. Emeritus of Biology, N. Y. U.* (**1R**, 1932)

Chambers, W. W., Ph.D. Univ. of Pennsylvania, School of Medicine, Dept. of Anatomy, Philadelphia 4. *Assoc. Prof.* (**1**, 1950)

Chambers, William H., Ph.D. Chemical Corps, Med. Labs., Army Chemical Center, Md. *Chief, Physiology Div.* (**1**, 1924; **5**, 1933)

Chance, Britton, Ph.D., D.Sc. Univ. of Pennsylvania, Johnson Fndn., 36th and Spruce Sts., Philadelphia 4. *Prof. and Dir. of Johnson Foundation.* (**1**, 1950; **2**, 1950)

Chandler, Joseph P., Ph.D. Univ. of Michigan Med. School, Room G455, Univ. Hosp., Ann Arbor. *Assoc. Prof. of Biological Chemistry; Biochemist, Univ. Hosp.* (**2**, 1944; **5**, 1944)

Chang, Hsiang-Tung, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Associate.* (**1**, 1954)

Chang, Min Chueh, Ph.D. Worcester Foundation for Exptl. Biology, Shrewsbury, Mass. *Research Assoc.* (**1**, 1946)

Changus, George W., M.D. Sloan-Kettering Inst., 410 E. 68th St., New York City 21. (**4**, 1951)

Chanutin, Alfred, Ph.D. Univ. of Virginia School of Medicine, Biochemical Lab., Charlottesville. *Prof. of Biochemistry.* (**2**, 1925)

Charalampous, Frixos C., M.D., Sc.D. Univ. of Pennsylvania Med. School, Dept. of Chemistry,

Philadelphia 4. *Asst. Prof. of Biochemistry.* (**2,** 1955)

Chargaff, Erwin, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (**2,** 1935)

Charipper, Harry Adolph, Ph.D. Washington Square College of Arts and Sciences, 100 Washington Square E., New York City. *Prof. and Head of Dept. of Biology.* (**1,** 1941)

Charney, Jesse, M.S. Sharp & Dohme, Inc., West Point, Pa. *Research Assoc.* (**2,** 1954)

Chase, Aurin M., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Assoc. Prof.* (**1,** 1939)

Chase, Harold F., M.D. Jefferson Med. College Hosp., Philadelphia 7, Pa. *Clin. and Research Prof.* (**3,** 1944)

Chase, Merrill W., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Assoc. Member.* (**6,** 1938)

Chasis, Herbert, M.D., Med. Sc.D. 477 First Ave., New York City. *Assoc. Prof. of Medicine, New York Univ. College of Medicine.* (**1,** 1941)

Chatfield, Charlotte, B.S. 2220 Humbolt Ave., So., Minneapolis, Minn. (**5,** 1941)

Chatfield, Paul Oakes, M.D. Natl. Insts. of Health, Clinical Center, Bethesda 14, Md. *Chief, Sec. of Clin. Neurophysiology.* (**1,** 1950)

Chatterjee, Hemendra Nath, M.D. 9 Romas Mitter Rd., Bhowanipur, Calcutta, India. (**6,** 1948)

Cheever, Francis Sargent, M.D. Univ. of Pittsburgh Grad. School of Public Health, Pittsburgh 13, Pa. *Prof. of Microbiology.* (**6,** 1950)

Cheldelin, Vernon H., Ph.D. Oregon State College, Corvallis. *Prof. of Chemistry; Dir., Science Research Inst.* (**2,** 1947; **5,** 1946)

Chen, Graham, Sc.D., M.D. Parke, Davis & Co., Detroit, Mich. *Lab. Dir.; Research Pharmacologist.* (**3,** 1944)

Chen, James Yu-ping, M.D. Marquette Univ. School of Medicine, Dept. of Pharmacology, Milwaukee 3, Wis. *Assoc. Prof. of Pharmacology.* (**3,** 1951)

Chen, K. K., Ph.D., M.D. Lilly Research Labs., Indianapolis, Ind. *Dir. of Pharmacological Research.* (**1,** 1929; **3,** 1925)

Cheney, Ralph H., Sc.D. Brooklyn College, Biology Dept., Bedford Ave. and Ave. H, Brooklyn 10, N. Y. *Professor.* (**3,** 1934)

Chenoweth, Maynard B. M.D. The Dow Chemical Co., Biochemical Research Lab., Midland, Mich. *Dir., Basic Biochemical Research Lab.* (**3,** 1945)

Chernick, Sidney S., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Sr. Asst. Scientist, PHS(R).* (**2,** 1954)

Chesley, Leon C., Ph.D. 45 DuBonnet Road, Valley Stream, N. Y. *Assoc. Prof. of Obstetrics and Gynecology, State Univ. of New York College of Medicine.* (**1,** 1949)

Chesney, Alan M., M.D. Johns Hopkins Hospital, Baltimore, Md. *Dean Emeritus of the Med. Faculty; Assoc. Prof. Emeritus of Medicine, Johns Hopkins Univ.* (**4,** 1925)

Child, George P., Ph.D., M.D. White Labs., Inc. Kenilworth, N. J. *Dir. of Pharmacology.* (**3,** 1949)

Chin, Yin-Ch'ang, Ph.D. 1268 Sixth Ave., San Francisco, Calif. *Research Fellow, Univ. of California; Asst. Prof., Peking Union Med. College.* (**3,** 1950)

Chinard, Francis P., M.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Asst. Prof. of Physiological Chemistry and Medicine; Asst. Chief of Medicine, Baltimore City Hosps.* (**2,** 1951)

Chinn, Herman I., Ph.D. Office of Naval Research, London, England. *Scientific Liaison Officer.* (**1,** 1950; **3,** 1951)

Chopra, R. N., M.D., Sc.D. Drug Research Lab., Canal Rd., Jammu-Tawi, Kashmir, India. *Director.* (**3H,** 1938)

Choucroun, Nine. Inst. de Biologie Physico-Chimique, 13 Rue Pierre Curie, Paris V, France. (**6,** 1949)

Chow, Bacon F., Ph.D. Johns Hopkins Univ. School of Hygiene, 615 N. Wolfe St., Baltimore 14, Md. *Assoc. Prof. of Biochemistry.* (**2,** 1940; **5,** 1948; **6,** 1944)

Christensen, Halvor N., Ph.D. Univ. of Michigan, Dept. of Biological Chemistry, Ann Arbor. *Prof. and Head of Dept.* (**2,** 1947)

Christensen, L. Royal, Ph.D. New York Univ. College of Medicine, Dept. of Microbiology, 550 First Ave., New York City. *Asst. Prof.; Dir., Berg Inst.* (**6,** 1942)

Christian, John J., Sc.D. Naval Med. Research Inst., Bethesda 14, Md. *Head, Animal Labs.* (**4,** 1955)

Christman, Adam A., Ph.D. Univ. of Michigan Med. School, Ann Arbor. *Prof. of Biological Chemistry.* (**2,** 1929)

Churney, Leon, Ph.D. Louisiana State Univ. School of Medicine, New Orleans 12. *Assoc. Prof. of Physiology.* (**1,** 1953)

Chusid, Joseph G., M.D. St. Vincent's Hospital, Neurological Div., 145 W. 11th St., New York City 11. *Attending Neurologist.* (**1,** 1951)

Cizek, Louis Joseph, M.D. Columbia Univ. College of Physicians & Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Asst. Prof.* (**1,** 1951)

Clamann, Hans G., M.D. USAF School of Aviation Medicine, Dept. of Physiology and Biophysics, Randolph Field, Tex. *Research Physiologist.* (**1,** 1953)

Clark, Byron B., Ph.D. Tufts Univ. School of

Medicine, Boston 15, Mass. *Prof. of Pharmacology and Chairman of Dept.* (**3,** 1940)

Clark, Eliot R., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. Emeritus of Anatomy.* (**1R,** 1919)

Clark, Ernest D., Ph.D. 826 Skinner Bldg., Seattle 1, Wash. *Dir. of the Labs., Northwest Branch, Natl. Canners' Assoc.* (**2R,** 1912)

Clark, George, Ph.D. Univ. of Buffalo, Dept. of Physiology, Buffalo 14, N. Y. *Assoc. Prof. of Physiology.* (**1,** 1943)

Clark, Guy W., Ph.D. R.F.D. 5330 Wild Horse Valley Rd., Napa, Calif. (**2R,** 1922)

Clark, Janet Howell, Ph.D. 708 Cedarcroft Rd., Baltimore, Md. *Research Assoc., Dept. of Environmental Medicine, Johns Hopkins Univ.* (**1,** 1922)

Clark, John Kapp, M.D. Univ. of Pennsylvania, Univ. Hospital, Philadelphia 4. *Assoc. Prof. of Medicine; Dir. of Research, Smith, Kline & French Labs.* (**1,** 1953)

Clark, Leland C., Jr., Ph.D. Antioch College, Fels Research Inst., Yellow Springs, Ohio. *Research Assoc.* (**1,** 1953)

Clark, Paul F., Ph.D. Univ. of Wisconsin Med. School, Madison. *Prof. Emeritus of Med. Microbiology.* (**6,** 1928)

Clark, Robert T., Jr., Ph.D. USAF School of Aviation Medicine, Dept. of Physiology and Biophysics, Randolph Field, Tex. *Head.* (**1,** 1953)

Clark, William G., Ph.D. Gen. Med. Research, V. A. Center, Bldg. 114, Wilshire and Sawtelle Blvds., Los Angeles 25, Calif. *Chief, Pharmacology-Physiology Section.* (**1,** 1942; **3,** 1949)

Clark, William Mansfield, Ph.D. Johns Hopkins Univ., Dept. of Chemistry, Baltimore 18, Md. *DeLamar Prof. Emeritus of Physiological Chemistry; Research Prof. of Chemistry.* (**2R,** 1920)

Clarke, Donald A., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 East 68th St., New York City 21. *Assoc. Member and Head, Solid Tumor Screening Sec.* (**3,** 1952)

Clarke, Hans Thacher, D.Sc. (London). Columbia Univ. College of Physicians & Surgeons, New York City 32. *Prof. of Biochemistry.* (**2,** 1929)

Clarke, Robert W. Army Med. Service Grad. School, Army Med. Center, Washington 12, D. C. *Chief, Dept. of Surgical Physiology.* (**1,** 1936)

Cleghorn, Robert Allen, M.D., D.Sc. McGill Univ., Dept. of Psychiatry, Montreal, Quebec, Canada. *Assoc. Prof.* (**1,** 1937)

Clowes, George Henry Alexander, Ph.D. Eli Lilly & Co., Indianapolis 6, Ind. *Dir. of Research Emeritus.* (**2R,** 1914; **6R,** 1919)

Cluff, Leighton Eggertsen, M.D. Johns Hopkins Hosp., Baltimore 5, Md. *Resident Physician; Asst. Prof. in Medicine, Johns Hopkins Univ.* (**6,** 1954)

Coburn, Alvin F., M.D. Rheumatic Fever Research Inst., Chicago, Ill. *Director.* (**6,** 1948)

Coca, Arthur F., M.D. 425 Grant Ave., Oradell, N. J. (**6H,** 1916)

Cochin, Joseph, M.D., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Clin. Pharmacologist.* (**3,** 1955)

Cochran, K. W., Ph.D. Univ. of Michigan, School of Public Health, Dept. of Epidemiology, Ann Arbor. *Asst. Prof. of Epidemiology.* (**3,** 1952)

Code, Charles F., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Prof. of Physiology.* (**1,** 1939; **3,** 1950)

Coffey, Julia M., A.B. Div. of Labs. and Research, New York State Dept. of Health, Albany. *Assoc. Bacteriologist.* (**6,** 1937)

Coghill, Robert D., Ph.D. Abbott Labs., N. Chicago, Ill. *Dir. of Research.* (**2,** 1932)

Cohen, Herman, Ph.D. Princeton Labs., E. R. Squibb and Sons, Princeton, N. J. *Research Assoc.* (**1,** 1955)

Cohen, Philip P., Ph.D., M.D. Univ. of Wisconsin, Med. School, Madison. *Prof. of Physiological Chemistry.* (**2,** 1941)

Cohen, Saul L., Ph.D. Univ. of Minnesota, 207 Millard Hall. Minneapolis. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1948)

Cohen, Seymour S., Ph.D. Univ. of Pennsylvania School of Medicine, Dept. of Physiological Chemistry, Philadelphia, Pa. *Prof. of Physiological Chemistry and Pediatrics.* (**2,** 1946)

Cohen, Sophia M., B.S. New York State Dept. of Health, Div. of Labs. and Research, Albany. *Assoc. Bacteriologist.* (**6,** 1938)

Cohen, Stanley, Ph.D. Washington Univ., Dept. of Zoology, St. Louis 5, Mo. *Asst. Prof.* (**2,** 1954)

Cohn, Alfred E., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member Emeritus.* (**1R,** 1911; **3,** 1913)

Cohn, Clarence, M.D. Michael Reese Hospital, Med. Research Inst., Chicago, Ill. *Dir. of Dept. of Biochemistry.* (**1,** 1948)

Cohn, Melvin, Ph.D. Washington Univ. Med. School, Dept. of Microbiology, St. Louis, Mo. *Assoc. Prof.* (**2,** 1955)

Cohn, Mildred, Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway. St. Louis 10, Mo. *Established Investigator, Am. Heart Assn.; Research Assoc., Biological Chemistry.* (**2,** 1949)

Cohn, Waldo E., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biochemist.* (**2,** 1944)

Cole, Harold H., Ph.D. Univ. of California, College of Agriculture, Dept. of Animal Husbandry, Davis. *Prof. and Chairman of Dept.* (**1,** 1947)

Cole, Kenneth S., Ph.D. Natl. Inst. of Neurological Diseases and Blindness, NIH, Bethesda 14, Md. *Chief, Lab. of Biophysics.* (**1,** 1934)

Cole, Rufus, M.D., D.Sc. Mount Kisco, N. Y. *Member Emeritus, Rockefeller Inst. for Med. Research.* (**4R,** 1924; **6R,** 1917)

Cole, Versa V., Ph.D., M.D. Caro State Hosp. for Epileptics, Caro, Mich. *Pharmacologist.* (**3,** 1941)

Collett, Mary E., Ph.D. 34 Weston Rd., Wellesley 81, Mass. (**1,** 1921)

Collier, H. Bruce, Ph.D. Univ. of Alberta, Dept. of Biochemistry, Edmonton, Alta., Canada. *Prof. and Head of Dept.* (**2,** 1944)

Collings, William Doyne, Ph.D. Michigan State Univ., Dept. of Physiology, East Lansing. *Assoc. Prof.* (**1,** 1944)

Collins, Dean A., Ph.D., M.D. Temple Univ. School of Medicine, 3400 N. Broad St., Philadelphia 40, Pa. *Prof. and Head of Dept. of Pharmacology.* (**1,** 1938)

Collins, Russell J., A.M., M.D. St. John, New Brunswick, Canada. *Med. Superintendent of St. John Tuberculosis Hospital.* (**3,** 1915)

Collip, J. B., Ph.D., M.D. Univ. of Western Ontario, R.R. 5, London, Ontario, Canada. *Dean of Medicine; Dir., Div. of Med. Research, Natl. Research Council.* (**1,** 1920; **2,** 1920)

Colowick, Sidney P., Ph.D. Johns Hopkins Univ., McCollum-Pratt Inst., Baltimore 18, Md. *Prof. of Biology.* (**2,** 1944)

Coman, Dale R., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. of Pathology.* (**4,** 1939)

Comar, Cyril Lewis, Ph.D. Oak Ridge Inst. of Nuclear Studies, Med. Div., Oak Ridge, Tenn. *Principal Scientist.* (**5,** 1951)

Combs, Gerald F., Ph.D. Univ. of Maryland, Dept. of Poultry Husbandry, College Park. *Prof. of Poultry Nutrition.* (**5,** 1954)

Comroe, Julius H., Jr., M.D. Univ. of Pennsylvania Grad. School of Medicine, Philadelphia. *Prof. of Physiology and Pharmacology.* (**1,** 1943; **3,** 1939)

Congdon, Charles C., M.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Pathologist.* (**4,** 1953)

Conklin, Ruth E., Ph.D. Vassar College, Poughkeepsie, N. Y. *Prof. of Physiology.* (**1,** 1940)

Conn, Eric E., Ph.D. Univ. of California, Dept. of Plant Biochemistry, 337 Biochemistry and Virus Lab., Berkeley, 4. *Asst. Prof.* (**2,** 1952)

Conn, Hadley L., Jr., M.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Assoc. in Medicine and Established Investigator, Am. Heart Assn.* (**1,** 1955)

Conn, Jerome W., M.D. Univ. of Michigan Med. School, Ann Arbor. *Prof. of Internal Medicine; Dir., Div. of Endocrinology and Metabolism.* (**5,** 1942)

Consolazio, William V., B. S. National Science Foundation, Washington 25, D. C. *Program Dir. of Molecular Biology.* (**2,** 1949)

Cook, Donald Hunter, Ph.D. Univ. of Miami, Coral Gables 34, Fla. *Prof. of Chemistry.* (**2,** 1929)

Cook, Donald L., Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Pharmacologist.* (**3,** 1952)

Cook, Leonard, Ph.D. Smith, Kline and French Labs., Dept. of Pharmacology, Philadelphia, Pa. *Head, Neurological Unit.* (**3,** 1955)

Cooke, Robert A., A.M., M.D. 60 E. 58th St., New York City. *Dir. of Dept. of Allergy, Roosevelt Hospital.* (**6,** 1920)

Coolidge, Thomas B., M.D., Ph.D. Univ. of Chicago, Abbot Hall, Chicago 37, Ill. *Assoc. Prof., Dept. of Biochemistry and Walter G. Zoller Memorial Dental Clinic.* (**2,** 1942)

Coon, Julius M., M.D., Ph.D. Jefferson Med. College, Dept. of Pharmacology, 1025 Walnut St., Philadelphia 7, Pa. *Prof. and Head of Dept.* (**3,** 1941)

Coon, Minor J., Ph.D. Univ. of Michigan Med. School, Ann Arbor. *Prof. of Biological Chemistry.* (**2,** 1952)

Coon, Robert W., M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Assoc. Prof. of Pathology.* (**4,** 1955)

Coons, Albert H., M.D. Harvard Univ. Med. School, 25 Shattuck St., Boston 15, Mass. *Visiting Prof. of Bacteriology and Immunology; Career Investigator, Am. Heart Assn.* (**6,** 1950)

Coons, Callie Mae, Ph.D. U. S. Dept. of Agriculture, Human Nutrition Research Branch, Washington 25, D. C. *Chief.* (**5,** 1933)

Cooper, Merlin L., M.D. Children's Hospital Research Foundation, Elland Ave. and Bethesda, Cincinnati 29, Ohio. *Assoc. Prof. of Bacteriology; Asst. Prof. of Pediatrics, Univ. of Cincinnati College of Medicine.* (**6,** 1949)

Cooperman, Jack M., Ph.D. Hoffmann-LaRoche Inc., Nutley 10, N. J. *Sr. Research Biochemist.* (**5,** 1952)

Copeland, D. Eugene, Ph.D. 1027 N. Manchester St., Arlington 5, Va. *Professional Assoc., Med. Sciences Div., Natl. Academy of Sciences-Natl. Research Council.* (**1,** 1951)

Copley, Alfred Lewin, M.D. Centre National de Transfusion Sanguine, Lab. de Récherches, 6 Rue Alexandre-Cabanel, Paris 15e, France. *Chargé de récherches de l'Institut National d'Hygiene.* (**1,** 1944)

Copp, Douglas Harold, M.D., Ph.D. Univ. of British Columbia, Dept. of Physiology, Vancouver, B.C., Canada. *Prof. and Head of Dept.* (**1,** 1951)

Corbin, Kendall B., M.D. 919 8th St., S.W., Rochester, Minn. *Consultant in Neurology, Mayo Clinic; Prof. of Neurology, Mayo Foundation.* (**1,** 1941)

Corcoran, Arthur Curtis, C.M., M.D. Cleveland

Clinic Foundation, Cleveland 6, Ohio. *Research Div.* (**1**, 1940; **3**, 1955)

Cordy, Donald R., D.V.M., Ph.D. Univ. of California School of Veterinary Medicine, Davis. *Assoc. Prof. of Veterinary Pathology; Assoc. Pathologist.* (**4**, 1954)

Corey, Edward Lyman, Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Prof. of Physiology.* (**1**, 1931)

Cori, Carl F., M.D. Washington Univ. School of Medicine, Kingshighway and Euclid Ave., St. Louis 10, Mo. *Prof. of Biochemistry.* (**2**, 1925)

Cori, Gerty T., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Biochemistry.* (**2**, 1927)

Corley, Ralph Conner, Ph.D. Purdue Univ., Dept of Chemistry, Lafayette, Ind. *Prof. of Biochemistry.* (**2**, 1927)

Cornatzer, W. E., Ph.D., M.D. Univ. of North Dakota Med. School, Dept. of Biochemistry, Grand Forks. *Prof. and Head of Dept.* (**2**, 1950)

Corper, Harry J., M.D., Ph.D. 1295 Clermont St., Denver 20, Colo. *Dir. Emeritus of Research, Natl. Jewish Hospital and Univ. of Colorado School of Medicine.* (**2R**, 1912)

Corson, Samuel A., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Assoc. Prof. of Physiology and Pharmacology.* (**1**, 1943)

Cotten, Marion deVeaux, Ph.D. Natl. Heart Inst., Lab. of Chemical Pharmacology, NIH, Bethesda 14, Md. (**3**, 1953)

Cotts, Gerhard K., M.D. 4668 N. Dittmar Rd., Arlington, Va. (**3**, 1937)

Co Tui, Frank W., M.D. Creedmoor Inst., Queens Village 27, N. Y. *Assoc. Research Scientist in Physiology.* (**3**, 1931)

Cotzias, George C., M.D. Brookhaven Natl. Lab., Dept. of Medicine, Upton, N. Y. *Head, Physiology Div.* (**4**, 1954)

Couch, James Russell, Ph.D. Texas A. & M. College, College Station. *Prof., Depts. of Poultry Husbandry and Biochemistry and Nutrition.* (**2**, 1953; **5**, 1950)

Coulson, E. Jack, Ph.D. USDA, Agric. Research Service, Washington 25, D. C. *Biochemist, Eastern Utilization Research Branch.* (**6**, 1955)

Coulson, Roland A., Ph.D. Louisiana State Univ. School of Medicine, Dept. of Biochemistry, New Orleans 12. *Professor.* (**2**, 1954)

Cournand, Andre Frederic, M.D. Chest Service, Bellevue Hospital, C. D. Building, 1st Ave. at 28th St., New York City. *Prof. of Medicine, College of Physicians and Surgeons, Columbia Univ.* (**1**, 1944)

Cowen, David, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Neuropathology.* (**4**, 1951)

Cowgill, George Raymond, Ph.D. Yale Univ., Nutrition Lab., 333 Cedar St., New Haven 11, Conn. *Prof. of Nutrition, Dept. of Biochemistry.* (**1**, 1923; **2**, 1922; **5**, 1933)

Cox, Alvin J., Jr., M.D. Stanford Univ. School of Medicine, 2398 Sacramento St., San Francisco 15, Calif. *Prof. of Pathology.* (**4**, 1949)

Cox, Gerald J., Ph.D. Univ. of Pittsburgh School of Dentistry, Pittsburgh 13, Pa. *Prof. of Dental Research.* (**2**, 1930; **5**, 1935)

Cox, Herald R., Sc.D. American Cyanamid Co., Research Div., Pearl River, N. Y. *Dir., Virus Research.* (**6**, 1946)

Cox, Warren M., Jr., Ph.D. Mead Johnson & Co., Evansville, Ind. *Dir. of Research.* (**2**, 1935; **5**, 1945)

Craig, Francis Northrop, Ph.D. Chemical Corps, Med. Labs., Army Chemical Center, Md. *Chief, Applied Physiology Br.* (**1**, 1946)

Craig, John M., M.D. Harvard Med. School, Boston 15, Mass. *Assoc. in Pathology.* (**4**, 1955)

Craig, L. C., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2**, 1938)

Crampton, Charles F., Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Assistant.* (**2**, 1955)

Crampton, E. W., Ph.D., Macdonald College Post Office, Quebec, Canada. *Prof. and Chairman, Dept. of Nutrition,* (**5**, 1940)

Crandall, Dana I., Ph.D. Univ. of Cincinnati, College of Medicine, Cincinnati 19, Ohio. *Assoc. Prof. of Biological Chemistry.* (**2**, 1951)

Crandall, Lathan A., Jr., M.D., Ph.D. Miles Labs., Inc., Elkhart, Ind. *Dir., Miles-Ames Research Labs.* (**1**, 1930)

Crane, Robert K., Ph.D. Washington Univ. Med. School, Dept. of Biological Chemistry, St. Louis 10, Mo. *Asst. Prof. of Biochemistry.* (**2**, 1953)

Cranston, Elizabeth M., Ph.D. Univ. of Minnesota Med. School, Dept. of Pharmacology, Minneapolis 14. *Asst. Prof.* (**3**, 1946)

Cravens, W. W., Ph.D. McMillen Feed Mills, Decatur, Ind. *Dir. of Feed Research and Nutrition.* (**5**, 1947)

Craver, Bradford N., Ph.D., M.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dir. of Pharmacology.* (**3**, 1946)

Crawford, Madeleine Field, Ph.D. 9 High Rock St., Needham, Mass. *Pine Manor Jr. College, Wellesley, Mass.* (**1**, 1933)

Crescitelli, Frederick, Ph.D. Univ. of California, Dept. of Zoology, Los Angeles. *Professor.* (**1**, 1946)

Cretcher, Leonard H., Ph.D. Univ. of Pittsburgh, Mellon Inst. of Industrial Research, Pittsburgh Pa. *Dir. of Research.* (**2R**. 1930)

Crider, Joseph O., M.D. Jefferson Med. College, Philadelphia, Pa. *Prof. of Physiology.* (**1R**, 1935)

Criep, Leo N., M.D. May Bldg., 5th and Liberty,

Pittsburgh, Pa. *Assoc. Prof. of Medicine.* (**6,** 1951)

Crisler, George R., Ph.D., M.D. 157 E. New England Ave., Winter Park, Fla. (**1,** 1930)

Crismon, Jefferson Martineau, M.D. Stanford Univ., Stanford, Calif. *Prof. and Executive of Dept. of Physiology.* (**1,** 1944)

Crittenden, Phoebe J., Ph.D. Goucher College, Dept. of Physiology and Bacteriology, Towson 4, Md. *Prof. and Chairman of Dept. of Physiology and Bacteriology.* (**1,** 1937; **3,** 1937)

Cromartie, William J., M.D. Univ. of North Carolina, School of Medicine, Dept. of Bacteriology, Chapel Hill. *Assoc. Prof. of Bacteriology and Medicine.* (**4,** 1951)

Cronheim, Georg E., Ph.D. Riker Labs., Inc., P.O. Box 3157, Terminal Annex, Los Angeles 54, Calif. *Dir., Biological Sciences* (**3,** 1951)

Cronkite, Eugene P., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Head, Pathology Div.* (**1,** 1954)

Crozier, William J., Ph.D. Harvard Univ., Biological Labs., Cambridge 38, Mass. *Research Prof. of General Physiology.* (**1,** 1928)

Crumpton, Charles W., M.D. Univ. of Wisconsin Med. School, Madison 6. *Asst. Prof. of Medicine; Chairman, Cardiovascular Research Lab.* (**3,** 1952)

Csaky, Tihamer Z., M.D. Univ. of North Carolina, School of Medicine, Dept. of Pharmacology, Chapel Hill. *Assoc. Prof.* (**3,** 1952)

Csonka, F. A., Ph.D. U. S. Dept. of Agriculture, Human Nutrition Research Branch, Washington 25, D. C. *Sr. Chemist.* (**2,** 1924)

Cullen, Stuart C., M.D. Univ. Hospitals, Iowa City, Iowa. *Prof. of Surgery; Chairman, Div. of Anesthesia.* (**3,** 1944)

Culler, Elmer A., Ph.D. Univ. of Rochester, Rochester, N. Y. *Prof. of Psychology and Dir. of Lab.* (**1R,** 1936)

Cunha, Tony Joseph, Ph.D. Univ. of Florida, Dept. of Animal Husbandry, Gainesville. *Head of Dept.* (**5,** 1950)

Cunningham, Raymond W., Ph.D. Lederle Labs., Inc., Pearl River, N. Y. *Pharmacology Research.* (**3,** 1941)

Cunningham, Robert Sydney, M.D., Sc.D. Sullivan's Island, S. C. (**1R,** 1923)

Cureton, Thomas Kirk, Jr., Ph.D. Univ. of Illinois, School of Physical Education, Urbana. *Prof. of Physical Education.* (**1,** 1946)

Curnen, Edward C., M.D. Univ. of North Carolina, School of Medicine, Dept. of Pediatrics, Chapel Hill. *Prof. and Chairman of Dept.* (**6,** 1941)

Curran, Gladys B., Ph.D. 310 S. Polk, Pierre, S. D. (**1,** 1946)

Curtis, George Morris, Ph.D., M.D. Ohio State Univ., Kinsman Hall, Columbus. *Prof. of Surgery; Chairman, Dept. of Research Surgery.* (**4R,** 1933)

Curtis, Howard J., Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Biologist and Chairman, Biology Dept.* (**1,** 1940)

Curtis, Jack M., Ph.D. Food and Drug Admin., Div. of Pharmacology, Dept. of Health, Education and Welfare, Washington 25, D. C. *Pharmacologist; Asst. Div. Chief for Management.* (**2,** 1951)

Cushing, John E., Jr., Ph.D. Univ. of California, Santa Barbara College, Goleta, Santa Barbara Co. *Assoc. Prof. of Bacteriology.* (**6,** 1952)

Cutting, Windsor C., M.D. Stanford Univ. School of Medicine, Stanford, Calif. *Prof. of Pharmacology and Dean.* (**3,** 1939)

Da Costa, Esther, Ph.D. Chicago Teachers College, 6800 Stewart, Chicago 21, Ill. *Physiologist.* (**1,** 1953; **5,** 1951)

Daft, Floyd Shelton, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda, Md. *Director.* (**2,** 1949; **5,** 1941)

Daggs, Ray Gilbert, Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Dir. of Research.* (**1,** 1935; **5,** 1933)

Dahl, Lewis Kitchener, M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Scientist* (**4,** 1953)

Dale, Sir Henry H., M.D., F.R.S. The Wellcome Trust, 24 Marley St., London W. 1, England. (**3H,** 1926)

Dalldorf, Gilbert, M.D. New York State Dept. of Health, Albany. *Dir., Div. of Labs. and Research.* (**4,** 1947; **6,** 1952)

Dalton, Albert J., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Principal Cytologist.* (**4,** 1942)

Dam, Henrik, Ph.D. Polytechnic Inst., Dept. of Biochemistry and Nutrition, Øster Voldgade 10 L, Copenhagen K, Denmark. *Prof. and Dir. of Dept.* (**2,** 1944; **5,** 1943)

D'Amour, Fred E., Ph.D. Univ. of Denver, Denver 10, Colo. *Chairman, Dept. of Zoology.* (**1,** 1934)

D'Amour, Marie C., Ph.D., M.D. Olive View Sanatorium, Olive View, Calif. (**1,** 1934)

Dandliker, Walter B., Ph.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Assoc. Prof.* (**2,** 1955)

D'Angelo, Savino A., Ph.D. Jefferson Med. College, Dept. of Anatomy, 307 S. 11th St., Philadelphia, Pa. *Assoc. Prof.* (**1,** 1947)

Daniel, Louise J., Ph.D. Cornell Univ., Savage Hall, Ithaca, N. Y. *Assoc. Prof. of Biochemistry and Nutrition.* (**2,** 1949)

Daniels, Amy L., Ph.D. 6 Rowland Ct., Iowa City, Iowa. (**2R,** 1919; **5R,** 1933)

Danielson, Irvin S., Ph.D. Lederle Labs., American Cyanamid Co., Pearl River, N. Y. *Mgr., Biological Production.* (**2,** 1937)

Danowski, T. S., M.D. Univ. of Pittsburgh

School of Medicine, Pittsburgh, Pa. *Renziehausen Prof. of Research Medicine.* (**1,** 1947)

Darby, William J., M.D., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Prof. of Biochemistry; Dir., Div. of Nutrition.* (**2,** 1949; **5,** 1945)

Darling, Robert Croly, M.D. 157 Glenwood Ave., Leonia, N. J. *Prof. of Physical Medicine and Rehabilitation, Columbia Univ. College of Physicians and Surgeons.* (**1,** 1944)

Darrow, Chester W., Ph.D. Inst. for Juvenile Research, 907 S. Wolcott Ave., Chicago, Ill. *Psychophysiologist; Assoc. Prof. of Criminology, Univ. of Illinois College of Medicine.* (**1,** 1937)

Darrow, Daniel Cady, M.D. Univ. of Kansas Med. Center, Dept. of Pediatrics, Kansas City. *Professor.* (**2,** 1936)

Daubert, B. F., Ph.D. Central Labs., General Foods Corp., 1125 Hudson St., Hoboken, N. J. *Technical Dir., Scientific Development Area.* (**2,** 1947)

Daum, Kate, Ph.D. Univ. Hospitals, Nutrition Dept., Iowa City, Iowa. *Dir., Prof. of Dietetics, State Univ. College of Medicine.* (**5,** 1951)

Davenport, Fred. M., M.D., D.M.Sc. Univ. of Michigan, School of Public Health, Ann Arbor. *Assoc. Prof. Epidemiology and Medicine.* (**6,** 1950)

Davenport, Horace Willard, Ph.D. Univ. of Utah, Dept. of Physiology, Salt Lake City 1. *Prof. and Head of Dept.* (**1,** 1942)

Davenport, Virginia D., Ph.D. Univ. of Utah College of Medicine, Salt Lake City. (**1,** 1950)

David, Norman Austin, M.D. Univ. of Oregon Med. School, Portland. *Prof. of Pharmacology.* (**3,** 1934)

Davidow, Bernard, Ph.D. Food and Drug Administration, Div. of Pharmacology, Washington, D. C. *Pharmacologist.* (**3,** 1953)

Davidsohn, Israel, M.D. Mt. Sinai Hosp., Chicago 8, Ill. *Dir., Dept. of Pathology; Prof. and Chairman of Dept. of Pathology, Chicago Med. School.* (**4,** 1939; **6,** 1929)

Davidson, Charles S., M.D. Boston City Hospital, Thorndike Memorial Lab., Boston 18, Mass. *Assoc. Prof. of Medicine, Harvard Med. School; Assoc. Dir., 2nd and 4th Med. Services, Boston City Hospital.* (**5,** 1949)

Davies, Dean F., Ph.D., M.D. American Cancer Soc., 521 W. 57th St., New York City 19. *Research Assoc.* (**1,** 1951)

Davies, Philip W., Ph.D. Johns Hopkins Univ., Dept. of Biophysics, Baltimore 18, Md. *Asst. Prof.* (**1,** 1948)

Davis, Bernard D., M.D. New York Univ. College of Medicine, New York City 16. *Prof. of Pharmacology.* (**2,** 1953; **6,** 1948)

Davis, Dorland J., M.D., Dr.P.H. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Lab. of Infectious Diseases.* (**3,** 1955; **6,** 1952)

Davis, George Kelso, Ph.D. Nutrition Lab., Animal Industry Dept., Agricultural Exper. Station, Gainesville, Fla. *Prof. of Nutrition, Univ. of Florida, Florida Agricultural Exper. Station.* (**5,** 1944)

Davis, Hallowell, M.D. Central Inst. for the Deaf, 818 S. Kingshighway, St. Louis 10, Mo. *Dir. of Research.* (**1,** 1925)

Davis, Harry A., M.D. College of Med. Evangelists, Dept. of Surgery, 2007 Wilshire Blvd., Los Angeles 5, Calif. *Clin. Prof. of Surgery.* (**4,** 1944)

Davis, James O., Ph.D., M.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Investigator, Lab. of Kidney and Electrolyte Metab.* (**1,** 1954)

Davis, John Emerson, Ph.D. Univ. of Texas College of Pharmacy, Austin. *Prof. of Pharmacology.* (**1,** 1941; **3,** 1941)

Davis, M. Edward, M.D. Chicago Lying-In Hospital, 5841 Maryland Ave., Chicago 37, Ill. *Joseph Bolivar de Lee Prof. and Chairman of Dept. of Obstetrics, Univ. of Chicago.* (**3,** 1950)

Dawson, Charles R., Ph.D. Columbia Univ., Broadway and 116th St., New York City 27. *Prof. of Chemistry.* (**2,** 1946)

Dawson, James Robertson, Jr., M.D. Univ. of Minnesota School of Medicine, Minneapolis 14. *Prof. of Pathology.* (**4,** 1940)

Dawson, Percy M., M.D. 97 E. Portola Ave., Los Altos, Calif. (**1R,** 1900)

Day, Harry G., Sc.D. Indiana Univ., Dept. of Chemistry, Bloomington. *Prof. and Chairman of Dept.* (**2,** 1948; **5,** 1940)

Day, Paul L., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Biochemistry.* (**2,** 1934; **5,** 1933)

De, N. N., M.B. Central Drug Research Inst., Chattar Manjil Palace, Lucknow, U.P., India. *Asst. Dir.* (**3,** 1948)

Dearborn, Earl H., Ph.D., M.D. Boston Univ., School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. of Pharmacology.* (**3,** 1946)

de Beer, Edwin J., Ph.D. The Wellcome Research Labs., Tuckahoe, N. Y. *Acting Dir. of Research; Head, Dept. of Pharmacology.* (**3,** 1944)

de Bodo, Richard C., M.D. 550 First Ave., New York City. *Prof. of Pharmacology, New York Univ. College of Medicine.* (**1,** 1932; **3,** 1931)

De Boer, Benjamin, Ph.D. Univ. of North Dakota School of Medicine, Grand Forks. *Prof. of Physiology and Pharmacology.* (**1,** 1947; **3,** 1948)

DeBoer, Carl J., Ph.D. Ciba Pharmaceutical Products, Dept. of Microbiology, Summit, N. J. *Dir., Virus Research.* (**6,** 1951)

DeEds, Floyd, Ph.D. 344 Santa Ana Ave., San Francisco, Calif. *Principal Pharmacologist,*

Western Regional Research Lab., Albany, Calif. (**2,** 1937; **3,** 1927)

Defandorf, James Holmes, Ph.D. 130 Hesketh St., Chevy Chase, Md. *Consultant, Biological and Chemical Warfare Defense, Fed. Civil Defense Administration; Research Analyst, Natl. Academy of Sciences-Natl. Research Council.* (**3,** 1940)

de Gara, Paul F., M.D. 133 E. 58th St., New York City 22. *Asst. Prof. of Clinical Pediatrics in Allergy, Cornell Univ. Med. College; Asst. Attending Pediatrician and Physician to Out-Patients, New York Hospital.* (**6,** 1941)

DeGraff, Arthur C., M.D. New York Univ. College of Medicine, New York City. *Prof. of Therapeutics.* (**1,** 1950; **3,** 1937)

de Gutierrez-Mahoney, C. G., M.D. St. Vincent's Hospital, New York City. *Dir., Neurological Div. and Neurosurgeon-in-Chief.* (**1,** 1940; **4,** 1941)

Deichmann, William B., Ph.D. Univ. of Miami, School of Medicine, Dept. of Pharmacology, Coral Gables, Fla. *Prof. and Chairman of Dept.* (**3,** 1941)

Delgado, Jose M. R., M.D. Yale Univ., School of Medicine, New Haven, Conn. *Assoc. Prof. of Neurophysiology.* (**1,** 1952)

Delory, George Edward, Ph.D. (Lond.). Univ. of Manitoba Med. College, Biochemistry Dept., Bannatyne and Emily, Winnipeg, Canada. *Assoc. Prof.* (**2,** 1951)

del Pozo, E. C., M.D. Francisco Sosa #151, Coyoacan, D. F. 21, Mexico. *Prof. of Physiology, Univ. Nacional Autonoma.* (**1,** 1943)

Delwiche, C. C., Ph.D. Univ. of California, Kearney Fndn., Berkeley. *Assoc. Prof.* (**2,** 1955)

De Meio, Romano Humberto, Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Assoc. Prof. of Biochemistry.* (**2,** 1951)

Dempsey, Edward W., Ph.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Anatomy.* (**1,** 1940)

Denison, Adam B., Jr., M.D. Bowman Gray School of Medicine, Dept. of Physiology, Winston-Salem, N. C. *Instructor.* (**1,** 1954)

Dennis, Emery W., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Dir., Biology Div.* (**3,** 1952; **6,** 1952)

Denslow, J. S., D.O. Kirksville College of Osteopathy and Surgery, Still Memorial Research Trust, Kirksville, Mo. *Prof.; Dir., Research Affairs.* (**1,** 1949)

Denstedt, Orville F., Ph.D. McGill Univ., Dept. of Biochemistry, Montreal, Que., Canada. *Assoc. Prof.* (**2,** 1948)

Denton, Charles A., B.S. U. S. Dept. of Agriculture, Animal and Poultry Husbandry Research Branch, Beltsville, Md. *Chemist.* (**5,** 1954)

Derbyshire, Arthur J., Ph.D. Harper Hospital, EEG Dept., Detroit, Mich. (**1,** 1939)

de Savitsch, Eugene, M.D. 2132 R St., N.W., Washington 8, D. C. *Surgeon (R) USPHS; Consulting Surgeon, Home for Incurables.* (**4,** 1934)

DesMarais, André, Ph.D. Laval Univ. Dept. of Exptl. Physiology, Quebec, Canada. *Assoc. Prof. of Mammalian Physiology.* (**1,** 1955)

Dethier, Vincent G., Ph.D. Johns Hopkins Univ., Dept. of Biology, Baltimore 18, Md. *Prof.* (**1,** 1950)

Dettwiler, Herman A., Ph.D. Eli Lilly and Co., Indianapolis, Ind. *Dir., Biological Production Div.* (**6,** 1946)

DeTurk, William E., Ph.D., M.D. Box 3105, Duke Hospital, Durham, N. C. *Assoc. Prof. of Pharmacology, Duke Univ.* (**3,** 1953)

Deuel, Harry J., Jr., Ph.D. Univ. of Southern California, Los Angeles. (**1,** 1928; **2,** 1924; **5,** 1933)

Deulofeu, Venancio, D. Chem. Casilla Correo 2539, Buenos Aires, Argentina. *Prof. of Organic Chemistry, Univ. of Buenos Aires.* (**2,** 1942)

Deutsch, Harold F., Ph.D. Univ. of Wisconsin. Dept. of Physiological Chemistry, Madison 6, *Assoc. Prof.* (**2,** 1948)

Dewey, Virginia C., Ph.D. Amherst College, Biological Lab., Amherst, Mass. *Research Assoc., Dept. of Biology.* (**2,** 1949)

Dews, Peter B., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Assoc. in Pharmacology.* (**3,** 1953)

Dexter, Lewis, M.D. Peter Bent Brigham Hospital, 721 Huntington Ave., Boston, Mass. *Asst. Prof. of Medicine, Harvard Med. School.* (**1,** 1951)

Dey, Frederick L., Ph.D., M.D., 15 Smith Ave., Niantic, Conn. (**1,** 1945)

Deyrup, Ingrith J., Ph.D. Barnard College, Columbia Univ., Dept. of Zoology, New York City 27. *Assoc. Prof.* (**1,** 1949)

Dickison, H. L., Ph.D. Bristol Labs. Inc., Bldg. 6, Syracuse 1, N. Y. *Dir., Pharmacological Research and Asst. Dir. Research.* (**3,** 1946)

Dickman, Sherman R., Ph.D. Univ. of Utah, 205 Cancer Research Bldg., Salt Lake City. *Assoc. Prof. of Biochemistry.* (**2,** 1951)

Dieckmann, William J., M.D. The Chicago Lying-in Hospital, 5841 Maryland Ave., Chicago 37, Ill. *Prof. of Obstetrics and Gynecology, Univ. of Chicago.* (**3,** 1947)

Dienes, Louis, M.D. Massachusetts General Hospital, Boston. *Consultant Bacteriologist.* (**6,** 1924)

Diermeier, Harold F., Ph.D. State Univ. of New York Med. College, Syracuse 10. *Asst. Prof. of Pharmacology.* (**3,** 1953)

Dietrich, LaRoy S., Ph.D. Columbia Univ. College

of Physicians and Surgeons, New York City 32. *Research Assoc.* (**2,** 1955)

Dill, David Bruce, Ph.D. Med. Labs., Army Chemical Center, Md. *Scientific Dir.* (**1,** 1941; **2,** 1927)

Dille, James M., Ph.D., M.D. Univ. of Washington School of Medicine, Seattle 5. *Prof. and Exec. Officer, Dept. of Pharmacology.* (**3,** 1939)

Dillon, Robert T., Ph.D. G.D. Searle and Co., Box 5110, Chicago 80, Ill. *Head, Analytical Div.* (**2,** 1934)

Dingle, John H., Sc.D., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Prof. of Preventive Medicine.* (**6,** 1941)

Dinning, James S., Ph.D. Univ. of Arkansas School of Medicine, Dept. of Biochemistry, Little Rock, Ark. *Assoc. Prof.* (**5,** 1953)

Di Palma, Joseph R., M.D. Hahnemann Med. College, Dept. of Pharmacology, 230 N. Broad St., Philadelphia, Pa. *Prof. and Head of Dept.* (**1,** 1943; **3,** 1951).

Dische, Zacharias, M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Ophthalmology, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (**2,** 1944)

Dittmer, Karl, Ph.D. Florida State Univ., Dept. of Chemistry, Tallahassee. *Head of Dept.* (**2,** 1950)

Dixon, Frank James, Jr., M.D. Univ. of Pittsburgh School of Medicine, Dept. of Pathology, Pittsburgh 13, Pa. *Professor.* (**4,** 1951; **6,** 1950)

Dixon, Harold M., M.D. Veterans Admin. Regional Office, 415 Pine St., St. Louis 2, Mo. (**4,** 1936)

Doan, Charles A., M.D. Ohio State Univ. College of Medicine, Columbus. *Dean; Dir., Med. Research; Prof. of Medicine.* (**4,** 1928)

Dobson, Ernest L., Ph.D. 15 Canyon Rd., Berkeley 4, Calif. *Physiologist, Radiation Lab.; Lecturer in Physiology, Univ. of California.* (**1,** 1954)

Dochez, A. Raymond, M.D. 1 W. 54 St., New York City 19. (**4R,** 1917; **6R,** 1922)

Dodd, Matthew C., Ph.D. Ohio State Univ., Dept. of Bacteriology, Columbus 10. *Prof. of Bacteriology and Immunology.* (**6,** 1950)

Dodds, Mary L., Ph.D. Pennsylvania State Univ., University Park. *Prof., Foods and Nutrition.* (**5,** 1948)

Dohan, F. Curtis, M.D. 80 Princeton Rd., Bala-Cynwyd, Pa. *Asst. Prof. of Clin. Medicine, Univ. of Pennsylvania.* (**1,** 1941)

Doherty, David G., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Sr. Biochemist.* (**2,** 1953)

Doisy, Edward A., Sr., Ph.D. St. Louis Univ. School of Medicine, St. Louis 4, Mo. *Prof. of Biological Chemistry and Dir. of Dept.* (**2,** 1920)

Doisy, Edward A., Jr., M.D. St. Louis Univ. School of Medicine, Dept. of Internal Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof.* (**2,** 1951)

Dolman, C. E., D.P.H., Ph.D. Univ. of British Columbia, Vancouver, B. C., Canada. *Prof. and Head, Dept. of Bacteriology and Immunology.* (**6,** 1947)

Dominguez, Rafael, M.D. St. Luke's Hospital, Cleveland 4, Ohio. *Dir., Div. Pathology.* (**1,** 1935)

Domino, Edward F., M.D., Univ. of Michigan Med. School, Dept. of Pharmacology, Ann Arbor. *Asst. Prof.* (**3,** 1953)

Donahue, D. D., D.Sc. 4228 Military Rd., N.W., Washington 15, D. C. (**3,** 1941)

Dooley, M. S., M.D. State Univ. Med. Center at Syracuse Univ., Syracuse, N. Y. *Prof. of Pharmacology.* (**3R,** 1923)

Dorfman, Albert, PhD., M.D. Univ. of Chicago, Dept. of Pediatrics, 920 E. 59th St., Chicago, Ill. *Assoc. Prof.* (**2,** 1948)

Dorfman, Ralph I., Ph.D. Worcester Fndn. for Experimental Biology, 222 Maple Ave., Shrewsbury, Mass. *Assoc. Dir. of Labs. and Research; Prof. of Biochemistry, Boston Univ.* (**2,** 1940)

Dotti, Louis Basil, Ph.D. St. Luke's Hospital, Amsterdam Ave. and 113th St., New York City. *Asst. Dir. of Labs.* (**1,** 1937)

Doty, J. Roy, Ph.D. American Dental Assoc., 222 E. Superior St., Chicago, Ill. *Secretary, Council on Dental Therapeutics.* (**2,** 1941)

Doty, Robert W., Ph.D. 4148 S. 20th East, Salt Lake City 7, Utah. *Asst. Prof., Dept. of Physiology, Univ. of Utah.* (**1,** 1951)

Doudoroff, Michael, Ph.D. Univ. of California, Dept. of Bacteriology, 3519 Life Sciences Bldg., Berkeley 4. *Prof. of Bacteriology.* (**2,** 1946)

Dougherty, Robert W., D.V.M., M.S. New York State Veterinary College, Cornell Univ., Ithaca, N. Y. *Prof. of Veterinary Physiology.* (**1,** 1951)

Dougherty, Thomas F., Ph. D. Univ. of Utah School of Medicine, Dept. of Anatomy, Salt Lake City. *Prof. and Chairman of Dept.* (**1,** 1950)

Doull, John, Ph.D., M.D. Univ. of Chicago, USAF Radiation Lab., Chicago 37, Ill. *Research Assoc.; Asst. Prof. Dept. of Pharmacology.* (**3,** 1953)

Dounce, Alexander L., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. Prof. of Biochemistry.* (**2,** 1944)

Doupe, Joseph, M.D. Medical College, Dept. of Physiology and Med. Research, Bannatyne and Emily, Winnipeg, Manitoba, Canada. *Prof. and Chairman of Dept.* (**1,** 1949)

Dow, Philip, Ph.D. Medical College of Georgia, Augusta. *Prof. of Physiology.* (**1,** 1939)

Dow, Robert S., M.D., Ph.D. Univ. of Oregon Med. School, Portland. *Assoc. Clin. Prof. of Medicine (Neurology).* (**1,** 1940)

Downs, Ardrey W., M.D., D.Sc. Univ. of Alberta, Edmonton, Alberta, Canada, *Emeritus Prof. of Physiology and Pharmacology.* (**1R,** 1917)

Downs, Cornelia M., Ph.D. Route 2, Lawrence, Kans. *Prof. of Bacteriology, Univ. of Kansas.* (**6,** 1929)

Doyle, William Lewis, Ph.D. Univ. of Chicago, Dept. of Anatomy, Chicago 37, Ill. *Prof.* (**1,** 1946)

Drabkin, David L., M.D. Univ. of Pennsylvania Grad. School of Medicine, Philadelphia 4. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1928; **5,** 1934)

Dragstedt, Carl A., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Prof. and Chairman of Dept. of Pharmacology.* (**1,** 1928; **3,** 1932)

Dragstedt, Lester R., M.D., Ph.D. Univ. of Chicago, 950 E. 59th St., Chicago, Ill. *Prof. and Chairman of Dept. of Surgery.* (**1,** 1920)

Draize, J. H., Ph.D. Food and Drug Admin., Div. of Pharmacology, Washington, D. C. *Pharmacologist.* (**3,** 1940)

Drake, T. G. H., M.B. Univ. of Toronto, Toronto, Canada. (**5,** 1936)

Draper, William B., M.Sc., M.D. Univ. of Colorado School of Medicine, 4200 E. 9th Ave., Denver. *Prof. of Pharmacology.* (**1,** 1947; **3,** 1938)

Dreisbach, Robert H., Ph.D., M.D. Stanford Univ. School of Medicine, San Francisco 15, Calif. *Prof. of Pharmacology.* (**3,** 1945)

Drell, William, Ph.D. Univ. of California Med. Ctr., Dept. of Physiological Chemistry, Los Angeles 24. *Established Investigator, Am. Heart Assn.* (**2,** 1955)

Dresel, Peter E., Ph.D. William S. Merrell Co., Cincinnati 15, Ohio. *Research Pharmacologist.* (**3,** 1955)

Dreyer, Nicholas Bernard, M.A. Woman's Med. College of Pennsylvania, Philadelphia 29. *Prof. of Physiology and Pharmacology.* (**3,** 1942)

Drill, Victor A., Ph.D., M.D. G. D. Searle & Co., Chicago 80, Ill. *Dir. of Biological Research.* (**1,** 1943; **3,** 1946)

Drinker, Cecil K., M.D. P. O. Box 502, Falmouth, Mass. (**1,** 1915)

Dripps, Robert D., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Prof. of Anesthesiology.* (**1,** 1947; **3,** 1945)

Driver, Robert L., Ph.D., M.D. Univ. of Vermont College of Medicine, Burlington. *Assoc. Prof. of Pharmacology.* (**1,** 1945; **3,** 1947)

Drury, Douglas R., M.D. Univ. of Southern California, Los Angeles. *Prof. of Physiology.* (**1,** 1932)

Dubin, Harry E., Ph.D. 43 Carlton Rd., New Rochelle, N. Y. (**2,** 1925)

Dubin, Isadore N., M.D. Woman's Med. College of Pennsylvania, Philadelphia 29. (**4,** 1947)

Dubnoff, Jacob W., Ph.D. 1201 E. California St., Pasadena 4, Calif. *Sr. Research Fellow, California Inst. of Technology.* (**2,** 1946)

Du Bois, Arthur B., M.D. Univ. of Pennsylvania Grad. School of Medicine, Dept. of Physiology and Pharmacology, Philadelphia 4. *Assoc. Prof. of Physiology.* (**1,** 1954)

DuBois, Eugene F., M.D. Cornell Univ. Med. School, 1300 York Ave., New York City. *Emeritus Prof. of Physiology and Biophysics.* (**1,** 1913; **3R,** 1921; **5R,** 1935)

Du Bois, Kenneth P., Ph.D. Univ. of Chicago, Dept. of Pharmacology, Chicago 37, Ill. *Assoc. Prof.; Dir., Air Force Radiation Lab.* (**3,** 1946)

Dubos, Rene J., Ph.D., D.Sc. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Head of Dept. of Bacteriology.* (**6,** 1938)

Duffy, Carl E., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Microbiology.* (**6,** 1951)

Dugal, L. Paul, Ph.D. Laval Univ. Med. School, Research Dept. on Acclimatization, Quebec City, Canada. *Dir. and Prof., Exper. Physiology.* (**1,** 1947)

Duggan, Edward L., Ph.D. Univ. of California Med. School, Berkeley, *Asst. Prof. of Physiological Chemistry.* (**2,** 1951)

Dukes, H. H., D.V.M., M.S. Cornell Univ., New York State Veterinary College, Ithaca. *Prof. of Veterinary Physiology.* (**1,** 1934)

Dulaney, Anna D., Ph.D. Univ. of Tennessee, Inst. of Pathology, Memphis. *Assoc. Prof. of Bacteriology, Med. School.* (**6,** 1924)

Dumke, Paul Rudolph, M.D. Henry Ford Hospital, West Grand Blvd. and Hamilton Ave., Detroit 2, Mich. *Dir., Sec. of Anesthesiology.* (**3,** 1942)

Dumm, Mary E., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Adjunct Asst. Prof. of Chemistry.* (**1,** 1950)

Dun, Fwu Tarng, Ph.D. Kirksville College of Osteopathy and Surgery, Dept. of Physiology, Kirksville, Mo. *Assoc. Prof.* (**1,** 1955)

Dunham, Wolcott B., M.D. V. A. Med. Teaching Group, Kennedy Hospital, Memphis 15, Tenn. *Dir., General Research Lab.* (**6,** 1951)

Dunlap, Charles E., M.D. Tulane Univ. of Louisiana, 1430 Tulane Ave., New Orleans. *Prof. of Pathology.* (**4,** 1942)

Dunn, Arthur L., Ph.D. VA Hospital, Radioisotope Unit, 4101 Woolworth Ave., Omaha 5. *Principal Scientist.* (**1,** 1951)

Dunn, Max Shaw, Ph.D. Univ. of California, Los Angeles. *Prof. of Chemistry; Prof. of Physiological Chemistry.* (**2,** 1933)

Dunn, Thelma Brumfield, M.D. Natl. Cancer Inst., Bethesda, Md. *Med. Officer.* (**4,** 1945)

Durlacher, Stanley H., M.D. Louisiana State Univ. School of Medicine, Dept. of Pathology, New Orleans 12. *Professor.* (**1,** 1949; **4,** 1955)

Durrum, Emmett L., M.D. Stanford Medical

School, Dept. of Pharmacology, San Francisco 15, Calif. *Asst. Clin. Prof.* (**2**, 1954)

Dury, Abraham, Ph.D. Bradford Hospital, Interstate Pkwy., Bradford, Pa. *Dir., Dorn Lab. for Med. Research.* (**1**, 1948)

Duryee, William R., Ph.D. George Washington Univ. School of Medicine, Dept. of Physiology, Washington 5, D. C. *Research Prof.* (**1**, 1952)

Dutcher, James D., Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dept. Head, Div. of Organic Chemistry.* (**2**, 1946)

Dutcher, R. Adams, D.Sc. 254 E. Hamilton Ave., University Park, Pa. *Prof. Emeritus, Dept. of Agricultural and Biological Chemistry, Pennsylvania State Univ.* (**2R**, 1920; **5R**, 1933)

Duval, Charles Warren, M.D. Sacred Heart Hospital, Pensacola, Fla. *Prof. Emeritus of Pathology and Bacteriology, Tulane Univ.* (**4**, 1913)

du Vigneaud, Vincent, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Prof. of Biochemistry.* (**2**, 1929; **5**, 1934)

Dworkin, Simon, D.D.S., M.D. McGill Univ., Biology Building, Montreal, Quebec, Canada. *Asst. Prof. in Physiology, Faculty of Medicine.* (**1**, 1931)

Dye, J. A., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Physiology.* (**1**, 1929)

Dye, Marie, Ph.D. Michigan State Univ., East Lansing. *Dean, College of Home Economics.* (**2**, 1929; **5**, 1933)

Dyer, Helen M., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Chemist.* (**2**, 1936; **5**, 1937)

Dziemian, Arthur J., Ph.D. Med. Labs., Biophysics Div., Army Chemical Center, Md. *Chief, Wound Ballistics Br.* (**1**, 1948)

Dziewiatkowski, Dominic D., Ph.D. Rockefeller Inst. for Med. Research, Hospital, 66th St. and York Ave., New York City 21. *Assoc., Dept. of Biochemistry.* (**2**, 1950)

Eadie, George S., Ph.D. Duke Univ. School of Medicine, Box 3709, Durham, N. C. *Prof. of Physiology and Pharmacology.* (**1**, 1929; **3**, 1940)

Eagle, Edward, Ph.D. Swift and Co., Research Labs., Chicago 9, Ill. *Head, Div. of Physiology and Toxicology.* (**1**, 1950; **3**, 1953)

Eagle, Harry, M.D. Natl. Insts. of Health, Bethesda, Md. *Chief of Section on Exper. Therapeutics, Microbiological Inst.* (**3R**, 1946; **6**, 1953)

Eakin, Robert E., Ph.D. Univ. of Texas, Dept. of Chemistry, Austin. *Assoc. Prof. of Chemistry.* (**2**, 1948)

Earle, D. P., Jr., M.D., Med. Sc.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. (**1**, 1947)

Earle, Wilton R., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Head, Tissue Culture Section, Lab. of Biology.* (**4**, 1940)

Easton, Dexter M., Ph.D. Florida State Univ., Tallahassee. *Asst. Prof. of Physiology.* (**1**, 1955)

Eaton, Monroe D., M.D. Harvard Med. School, Boston, Mass. *Assoc. Prof. of Bacteriology and Immunology.* (**6**, 1937)

Eccles, John Carew, Ph.D. Australian Natl. Univ., Dept. of Physiology, Canberra. *Professor.* (**1H**, 1952)

Eckenhoff, James E., M.D. Hospital of the Univ. of Pennsylvania, Philadelphia. *Prof. of Anesthesiology.* (**1**, 1948)

Ecker, E. E., Ph.D. Western Reserve Univ. School of Medicine, 2085 Adelbert Rd., Cleveland, Ohio. *Prof. of Immunology.* (**4**, 1925; **6**, 1947)

Eckert, Edward A., Ph.D. New York State Univ. Med. Ctr. at New York City, College of Medicine, Brooklyn 1, N. Y. *Asst. Prof. in Microbiology.* (**4**, 1954; **6**, 1954)

Eckstein, Gustav, M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Physiology.* (**1**, 1948)

Eckstein, Henry C., Ph.D. Univ. of Michigan, 320 W. Med. Building, Ann. Arbor. *Prof. of Biological Chemistry.* (**2**, 1925)

Eckstein, R. W., M.D. Western Reserve Univ., Dept. of Medicine, Cleveland, Ohio. *Asst. Prof. of Medicine and Physiology.* (**1**, 1947)

Eddy, Bernice E., Ph.D. Natl. Insts. of Health, Inst. of Microbiology, Bethesda 14, Md. *Sr. Bacteriologist.* (**6**, 1949)

Eddy, Nathan B., M.D. Natl. Insts. of Health, Bethesda, Md. *Med. Officer.* (**3**, 1929)

Eddy, Walter H., Ph.D. P.O. Box 6147, Southbore Sta., West Palm Beach, Fla. *Research Dir., Mangrove Products Co.* (**2R**, 1913; **5R**, 1933)

Edelmann, Abraham, Ph.D. Nuclear Science and Engineering Corp., Pittsburgh 36, Pa. (**1**, 1948)

Ederstrom, H. E., Ph.D. Univ. of North Dakota, School of Medicine, Dept. of Physiology, Grand Forks. *Professor.* (**1**, 1949)

Edholm, O. G., M.B. Natl. Inst. for Med. Research, Hampstead, London, N.W. 3, England. *Head, Dept. of Human Physiology.* (**1**, 1948)

Edsall, Geoffrey, M.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Dir., Immunology Div.* (**6**, 1943)

Edsall, John Tileston, M.D. Biological Labs., Harvard Univ., 16 Divinity Ave., Cambridge 38. *Prof. of Biological Chemistry.* (**2**, 1931)

Edwards, Dayton J., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Secr. of the Faculty.* (**1R**, 1921)

Edwards, J. Graham, Ph.D. 3435 Main St., Buffalo, N. Y. *Assoc. Prof. of Anatomy, Univ. of Buffalo.* (**1**, 1932)

Edwards, Jesse E., M.D. Mayo Clinic, Rochester 4, Minn. *Prof. of Pathologic Anatomy, Mayo Foundation.* (**4**, 1941)

Edwards, Leslie E., Ph.D. Med. College of Vir-

ginia, Dept. of Physiology and Pharmacology, Richmond. *Assoc. Prof.* (**1**, 1950)

Eggerth, Arnold H., Ph.D. Hoagland Lab., 335 Henry St., Brooklyn, N. Y. *Prof. Emeritus of Microbiology and Immunology, State Univ. Med. Center at New York.* (**4**, 1925)

Ehrenstein, Maximilian R., Ph.D. Univ. of Pennsylvania Hospital, 806 Maloney Clinic, 36th and Spruce Sts., Philadelphia 4. *Prof. of Biochemistry, Univ. of Pennsylvania School of Medicine.* (**2**, 1942)

Ehrich, William E., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Pathology, Grad. School of Medicine; Chief, Div. of Pathology, Philadelphia General Hospital.* (**4**, 1945)

Eichelberger, Lillian, Ph.D. Univ. of Chicago, Dept. of Surgery, Chicago, Ill. *Assoc. Prof. of Biochemistry.* (**2**, 1937)

Eichna, Ludwig W., M.D. New York Univ. College of Medicine, Dept. of Medicine, 550 First Ave., New York City 16. *Assoc. Prof. of Medicine; Visiting Physician, Bellevue Hosp.* (**1**, 1949)

Eichwald, Ernest J. Montana Deaconess Hosp., Great Falls. (**4**, 1953)

Eiler, John J., Ph.D. Univ. of California Med. Center, San Francisco 22. *Prof. of Biochemistry.* (**2**, 1948)

Eisen, Herman N., M.D. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. of Medicine (Dermatology).* (**6**, 1951)

Eisenberg, Frank, Jr., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Biochemist.* (**2**, 1955)

Eisenbrandt, Leslie L., Ph.D. Univ. of Kansas City, 5100 Rockhill Rd. Kansas City 10, Mo. *Prof. of Pharmacology; Dean, School of Pharmacy.* (**3**, 1951)

Eisenman, Anna J., Ph.D. U. S. Public Health Service Hospital, Lexington, Ky. *Biological Chemist.* (**2**, 1930)

Eisenman, George, M.D. Massachusetts Gen. Hosp., Boston 14. *Research Assoc., Harvard Univ.* (**1**, 1955)

Elberg, Sanford S., Ph.D. Univ. of California, Dept. of Bacteriology, Berkeley 4. *Prof. and Chairman of Dept.* (**6**, 1948)

Elderfield, Robert C., Ph.D., D.Sc. Univ. of Michigan, 2020 Chemistry Bldg., Ann Arbor. *Prof. of Chemistry.* (**2**, 1934)

Elftman, Herbert, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Assoc. Prof. of Anatomy.* (**1**, 1940)

Elion, Gertrude B., M.S. 25 Park View Ave., Bronxville 8, N. Y. *Sr. Biochemist, Wellcome Research Labs.* (**2**, 1952)

Eliot, Martha M., M.D. 5005 Jamestown Rd., Washington 16, D. C. (**5**, 1933)

Elkinton, J. Russell, M.D. Univ. of Pennsylvania Hospital, Dept. of Medicine, Philadelphia. (**1**, 1947)

Ellinger, Friedrich P., M.D. Naval Med. Research Inst., Bethesda 14, Md. *Chief Radiation Biologist; Head of Pharmacology Div.* (**3**, 1955)

Elliott, Henry W., Ph.D., M.D. Univ. of California Med. School, San Francisco 22. *Asst. Prof. of Pharmacology and Anesthesia.* (**3**, 1948)

Elliott, K. Allan C., Ph.D., Sc.D. Montreal Neurological Inst., 3801 Univ. St., Montreal, Que., Canada. *Assoc. Prof. of Exper. Neurology and Biochemistry.* (**2**, 1937)

Elliott, William H., Ph.D. St. Louis Univ., School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof. of Biochemistry.* (**2**, 1952)

Ellis, C. H., Ph.D. Wellcome Research Labs., Tuckahoe 7, N. Y. *Sr. Pharmacologist.* (**1**, 1947)

Ellis, Fred W., M.D., Ph.D. Univ. of North Carolina, School of Medicine, Chapel Hill. *Assoc. Prof. of Pharmacology.* (**3**, 1945)

Ellis, Lillian N., Ph.D. Adelphi College, Garden City, Long Island, N. Y. *Professor.* (**5**, 1940)

Ellis, N. R., M.S. U. S. Dept. of Agriculture, Agricultural Research Ctr., Beltsville, Md. *Agric. Administrator, Animal and Poultry Husbandry Br.* (**2**, 1928; **5**, 1933)

Ellis, Sydney, Ph.D. Temple Univ. Med. School, Dept. of Pharmacology, Philadelphia, Pa. *Assoc. Prof.* (**3**, 1947)

Elmadjian, Fred, Ph.D. Box 57, Worcester, Mass. *Staff Member, Worcester Foundation for Exper. Biology.* (**1**, 1950)

Elvehjem, Conrad Arnold, Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Professor.* (**2**, 1931; **5**, 1933)

Embree, Norris Dean, Ph.D. Distillation Products Industries. Rochester 3, N. Y. *Dir. of Research.* (**2**, 1946)

Emerson, George A., Ph.D. Univ. of Texas, Med. Branch, Galveston. *Prof. of Pharmacology.* (**3**, 1935)

Emerson, Gladys A., Ph.D. Merck Inst. of Therapeutic Research, Rahway, N. J. *Head, Dept. of Animal Nutrition.* (**5**, 1942)

Emery, Frederick E., D.V.M., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Physiology and Pharmacology.* (**1**, 1930)

Emmart, Emily W., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Cytologist.* (**3**, 1947)

Enders, John F., Ph.D. Children's Med. Center, 300 Longwood Ave., Boston, Mass. *Chief, Research Div. of Infectious Diseases; Assoc. Prof. of Bacteriology and Immunology, Harvard Med. School.* (**6**, 1936)

Endicott, Kenneth M., M.D. PHS, Natl. Insts. of Health, Bethesda 14, Md. *Chief, Cancer Chemotherapy Natl. Service Ctr.* (**4**, 1947)

Engel, Frank L., M.D. Duke Univ. School of

Medicine, Durham, N. C. *Assoc. Prof. of Medicine and Asst. Prof. of Physiology.* (**1**, 1947)

Engel, Lewis L., Ph.D. Massachusetts General Hospital, Boston 14. *Asst. Prof. of Biological Chemistry, Harvard Med. School (at the Mass. Gen. Hospital); Tutor in Biochemical Sciences, Harvard College.* (**2**, 1949)

Engel, Ruben W., Ph.D. Virginia Polytechnic Inst., Dept. of Biochemistry and Nutrition, Blacksburg. (**5**, 1948)

Engle, Earl Theron, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Prof. of Anatomy.* (**1**, 1930)

English, James, Jr., Ph.D. Yale Univ., Sterling Chemistry Lab., New Haven, Conn. *Assoc. Prof. of Chemistry.* (**2**, 1946)

Enright, John B., Ph.D. Univ. of California, School of Veterinary Medicine, Davis. *Assoc. Prof.* (**6**, 1948)

Entenman, Cecil, Ph.D. U. S. Naval Radiological Defense Lab., San Francisco 24, Calif. *Head, Biochemistry Branch.* (**1**, 1953)

Eppright, Ercel S., Ph.D. Iowa State College, Dept. of Food and Nutrition, Ames. *Prof. and Head of Dept.* (**5**, 1954)

Epstein, Albert A., M.D. 1111 Madison Ave., New York City. (**2R**, 1912)

Ercoli, N., M.D., Ph.D. Armour Labs., 1425 W. 42nd St., Chicago, Ill. *Dir. of Pharmacology.* (**3**, 1947)

Erickson, Cyrus C., M.D. Univ. of Tennessee, Inst. of Pathology, Memphis 3. *Prof. of Pathology.* (**4**, 1941)

Erickson, John Otto, Ph.D. Veterans Admin. Center, Radioisotope Lab., Wilshire and Sawtelle Blvds., Los Angeles 25, Calif. *Biophysicist.* (**6**, 1946)

Erlanger, Joseph, M.D., Sc.D. 5127 Waterman Blvd., St. Louis 8, Mo. *Prof. Emeritus of Physiology.* (**1R**, 1901)

Ershoff, Benjamin H., Ph.D. 9331 Venice Blvd., Culver City, Calif. *Dir., Western Biological Labs.; Visiting Assoc. Prof., Dept. of Biochemistry and Nutrition, Univ. of Southern California.* (**5**, 1950)

Eschenbrenner, Allen B., M.D. Public Health Service, Virus and Rickettsial Lab., P.O. Box 61, Montgomery 1, Ala. (**4**, 1946)

Espe, Dwight L., Ph.D. USDA State Exper. Stations, Washington 25, D. C. *Administrator.* (**1**, 1940)

Essex, Hiram E., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiology Grad. School, Univ. of Minn. under the Mayo Fndn.* (**1**, 1932; **3**, 1940)

Essig, Carl F., M.D. PHS Hosp., Lexington, Ky. *Surgeon, PHS.* (**1**, 1952)

Etsten, Benjamin E., M.D. New England Center Hosp., Harrison Ave. and Bennett St., Boston 11, Mass. *Anesthetist in Chief; Prof. of Anesthesia, Tufts Univ. Med. School.* (**3**, 1954)

Ettinger, G. H., M.D., C.M. Queen's Univ., Kingston, Ontario, Canada. *Prof. of Physiology; Asst. Dir., Div. of Med. Research, Natl. Research Council, Ottawa.* (**1**, 1943)

Evans, Charles A., M.D., Ph.D. Univ. of Washington, Dept. of Microbiology, Seattle 5. *Professor.* (**6**, 1952)

Evans, E. Edward, Ph.D. Univ. of Alabama, Med. Ctr., Dept. of Microbiology, Birmingham 3. *Asst. Prof.* (**6**, 1955)

Evans, Earl Alison, Jr., Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago, Ill. *Prof. and Chairman of Dept.* (**2**, 1939)

Evans, F. Gaynor, Ph.D. Wayne Univ. College of Medicine, 1401 Rivard St., Detroit 7, Mich. *Assoc. Prof. of Anatomy.* (**1**, 1954)

Evans, Gerald T., M.D., Ph.D. Univ. of Minnesota Hospitals, Minneapolis. *Dir. of Clin. Labs.; Prof. of Medicine, Univ. of Minnesota.* (**1**, 1942)

Evans, Herbert M., M.D. Univ. of California, Berkeley. *Prof. Emeritus of Anatomy and Dir. Emeritus of Inst. of Exper. Biology.* (**1R**, 1919)

Evans, John David, Ph.D. Temple Univ. School of Medicine, Philadelphia 40, Pa. *Asst. Prof. of Physiology.* (**1**, 1952)

Evans, Robert John, Ph.D. Michigan State Univ., Dept. of Agricultural Chemistry, East Lansing. *Research Prof.* (**5**, 1951)

Evans, Titus C., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Research Prof; Head of Radiation Research Lab.* (**1**, 1949)

Eveleth, D. F., Ph.D., D.V.M. North Dakota Agricultural College, Fargo. *Prof. of Veterinary Science, North Dakota Agricultural Exper. Station.* (**2**, 1939)

Everett, Guy M., Ph.D. Abbott Labs., Dept. of Pharmacology, N. Chicago, Ill. *Sr. Pharmacologist.* (**3**, 1950)

Everett, John W., Ph.D. Duke Hospital, Box 3209, Durham, N. C. *Prof. of Anatomy, Duke Univ. School of Medicine.* (**1**, 1951)

Everett, Mark R., Ph.D. Univ. of Oklahoma School of Medicine, 800 N. E. 13th St., Oklahoma City 4. *Dean, School of Medicine; Supt. of Univ. Hospitals.* (**2**, 1929)

Eversole, Wilburn J., M.Sc., Ph.D. Univ. of New Mexico, Dept. of Biology, Albuquerque. *Professor.* (**1**, 1950)

Everson, Gladys, Ph.D. Univ. of California, Dept. of Home Economics, Davis. *Prof. and Chairman.* (**5**, 1948)

Ewing, P. L., Ph.D. Univ. of Arkansas School of Medicine, Dept. of Pharmacology and Physiology, Little Rock. *Assoc. Prof.* (**3**, 1938)

Eyster, John A. English, M.D. Univ. of Wisconsin, Madison. *Prof. of Physiology.* (**1R**, 1906; **3R**, 1908)

Fahr, George, M.D. Univ. of Minnesota Med. School, 102 Millard Hall, Minneapolis. *Prof. of Clin. Medicine.* (**1R,** 1913; **3R,** 1940)

Failey, Crawford F., Ph.D. 416 S. 6th St., Terre Haute, Ind. (**2,** 1933)

Fairbairn, Donald, Ph.D. Macdonald College, Box 199, Quebec, Canada. *Assoc. Prof. of Parasitology, McGill Univ.* (**2,** 1953)

Fairhall, Lawrence T., Ph.D. P.O. Box 92, Pine Orchard, Conn. *Scientist Dir., PHS, ret.* (**2R,** 1924)

Fairley, James L., Ph.D. Michigan State Univ., Kedzie Chemical Lab., East Lansing. *Asst. Prof., Chemistry Dept.* (**2,** 1955)

Falk, Carolyn R., B.A. 40 E. 66th St., New York City. *Bacteriologist, Bureau of Labs., Dept. of Health.* (**6,** 1943)

Famulener, Lemuel W., Ph.D., M.D. 26 Redcliffe Ave., Highland Park, N. J. (**6,** 1920)

Farah, Alfred E., M.D. State Univ. of New York, Upstate Med. Center, Syracuse, N. Y. *Prof. of Pharmacology.* (**3,** 1948)

Farber, Emmanuel, M.D., Ph.D. Tulane Univ. School of Medicine, Depts. of Pathology and Biochemistry, New Orleans 12, La. *Asst. Prof.* (**4,** 1953)

Farber, Sidney, M.D. 300 Longwood Ave., Boston, Mass. *Prof. of Pathology, Harvard Med. School at Children's Hospital.* (**4,** 1934)

Farmer, Chester J., A. M. Wilson's Subdivision, Rt. 2, Cedar Lake, Ind. *Prof. Emeritus of Biochemistry, Northwestern Univ.* (**2R,** 1935)

Farner, Donald S., Ph.D. State College of Washington, Dept. of Zoology, Pullman. *Prof. of Zoophysiology.* (**1,** 1952)

Farnsworth, Edith B., M.D. 700 North Michigan, Chicago 11, Ill. *Asst. Prof. in Medicine, Northwestern Univ.* (**3,** 1952)

Farr, Lee E., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Med. Dir.; Physician-in-Chief, Brookhaven Natl. Lab. Hospital.* (**4,** 1941)

Farr, Richard S., M.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Instructor.* (**6,** 1955)

Farrar, George E., Jr., M.D. Wyeth Labs., 1401 Walnut St., Philadelphia 2, Pa. *Med. Dir.* (**3,** 1947)

Farrell, James, Ph.D., M.D. 636 Church St., Evanston, Ill. (**1,** 1938)

Fassett, David W., M.D. Eastman Kodak Co., Lab. of Industrial Medicine, Kodak Park Works, Rochester, N. Y. *Dir. of Lab.* (**3,** 1942)

Faulconer, Albert, Jr., M.D. Mayo Clinic, Rochester, Minn. *Head, Section of Anesthesiology.* (**3,** 1950)

Fay, Marion, Ph.D. Woman's Med. College of Pennsylvania, Philadelphia 29. *Dean; Prof. of Physiological Chemistry.* (**2,** 1937)

Fazekas, Joseph F., M.D. D. C. General Hospital, Washington 3, D. C. *Chief of Staff.* (**3,** 1953)

Featherstone, Robert M., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. of Pharmacology.* (**3,** 1947)

Feeney, Robert Earl, Ph.D. Univ. of Nebraska, College of Agriculture, Dept. of Biochemistry and Nutrition. *Professor and Chairman of Dept.* (**2,** 1952)

Feigen, George A., Ph.D. Stanford Univ., Dept. of Physiology, Stanford, Calif. *Assoc. Prof.* (**1,** 1948)

Feinberg, Samuel M., M.D. Northwestern Univ. Med. School, Chicago 11, Ill. *Prof. of Medicine; Chief, Allergy Clinic.* (**6,** 1955)

Feinstein, Robert N., Ph.D. Argonne Natl. Lab., Lemont, Ill. (**2,** 1950)

Feldman, Harry A., M.D. State Univ. of New York, Upstate Med. Ctr., Syracuse 10. *Assoc. Prof. of Medicine.* (**6,** 1943)

Feldman, Joseph D., M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh 13, Pa. *Assoc. Prof. of Pathology.* (**4,** 1955)

Feldman, William H., D.V.M., D.Sc. Mayo Foundation, Rochester, Minn. *Prof., Grad. School Univ. of Minn.; Assoc., Sec. Pathology-Anatomy.* (**4,** 1934)

Feller, A. E., M.D. Univ. of Virginia School of Medicine, Dept. of Microbiology, Charlottesville. *Prof. and Chairman.* (**6,** 1943)

Feller, David D., Ph.D. Veterans Administration Hospital, 4435 Beacon Ave., Seattle 8, Wash. *Instructor in Medicine, Univ. of Washington School of Medicine, Asst. Dir., Scientific; Radioisotope Unit.* (**1,** 1951)

Fellows, Edwin J., Ph.D. Smith, Kline and French Labs., Philadelphia, Pa. *Dir. of Biol. Sciences; Assoc. Prof. of Pharmacology, Temple Univ. Med. School* (**3,** 1939)

Felsenfeld, Oscar, Far East Med. Res. Unit, 406 Med. Gen. Lab., APO 500, San Francisco, Calif. *Lt. Col. MC, USAR, Research Bacteriologist.* (**6,** 1949)

Fenn, Wallace Osgood, Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Prof. of Physiology.* (**1,** 1924)

Fenning, Con, M.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. of Pharmacology and Physiology.* (**1,** 1942)

Fenton, P. F., Ph.D. Brown Univ., Providence, R. I. *Prof. of Biology.* (**1,** 1947; **5,** 1949)

Ferguson, Frank C., Jr., M.D. Albany Med. College, Dept. of Pharmacology, New Scotland Ave., Albany, N. Y. *Prof. and. Dir.* (**3,** 1951)

Ferguson, Frederick P., Ph.D. Univ. of Maryland School of Medicine, Dept. of Physiology, Baltimore 1. *Professor.* (**1,** 1949)

Ferguson, James Kenneth Wallace, M.D. 76 Kilbarry Rd., Toronto, Ont., Canada. *Prof. of Pharmacology, Univ. of Toronto.* (**1,** 1933; **3,** 1941)

Ferguson, John, Ph.D. Creighton Univ. School of Medicine, 302 No. 14th St., Omaha 2, Neb. *Asst. Prof. of Physiology and Pharmacology* (**1,** 1949)

Ferguson, John Howard, M.D. Univ. of North Carolina School of Medicine, Dept. of Physiology, Chapel Hill. *Prof. of Physiology and Dept. Head.* (**1,** 1933)

Ferguson, L. Kraeer, M.D. 133 S. 36th St., Philadelphia 4, Pa. *Prof. of Surgery, Grad. School, Univ. of Pennsylvania and Woman's Med. College of Pennsylvania; Surgeon, Doctor's Hospital and Philadelphia General Hosp.* (**4,** 1935)

Ferguson, Lloyd C., D.V.M., Ph.D. Ohio Agric. Exper. Sta., Dept. of Veterinary Science, Wooster. *Professor.* (**6,** 1953)

Ferguson, Ralph L., M.D. 606 Porter St., Joplin, Mo. *Pathologist, St. John's Hospital.* (**4,** 1949)

Ferris, Benjamin G., Jr., M.D. Town House Road, Weston 93, Mass. *Asst. Prof. in Physiology, Harvard School of Public Health.* (**1,** 1951)

Ferry, John Douglass, Ph.D. Univ. of Wisconsin, Madison. *Prof. of Chemistry.* (**2,** 1941)

Ferry, Ronald M., M.D. 966 Memorial Drive, Cambridge, Mass. *Assoc. Prof. of Biochemistry and Tutor in Biochem. Sciences, Harvard Univ.; Master of Winthrop House.* (**2,** 1924)

Fetcher, Edwin S., Ph.D. Steamboat Springs, Colo. (**1,** 1944)

Fetter, Dorothy, Ph.D. Brooklyn College, Dept. of Home Economics, Brooklyn, N. Y. *Asst. Prof.* (**1,** 1944)

Fevold, Harry L., Ph.D. Baxter Labs., Inc., 6301 Lincoln Ave., Morton Grove, Ill. *Dir. of Research and Development.* (**2,** 1942)

Field, John II, Ph.D. Univ. of California, School of Medicine, Dept. of Physiology, Los Angeles 24. *Prof. and Chairman of Dept.* (**1,** 1930)

Field, John B., M.D., Ph.D. Univ. of Southern California School of Medicine, Los Angeles 33. *Asst. Prof. of Clin. Medicine.* (**2,** 1952)

Finch, Clement A., M.D. Univ. of Washington Med. School, Dept. of Medicine, Seattle. *Professor.* (**1,** 1951)

Fincke, Margaret L., Ph.D. Oregon State College, Corvallis. *Prof. and Head of Dept. of Foods and Nutrition, School of Home Economics.* (**5,** 1940)

Findley, Thomas, Jr., M.D. Med. College of Georgia, Augusta. *Prof. of Medicine; Dir., Georgia Heart Assn. Lab. for Cardio-vascular Research.* (**1,** 1938)

Finerty, John C., Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Anatomy.* (**1,** 1947)

Fingl, Edward G., Ph.D. Univ. of Utah, Dept. of Pharmacology, Salt Lake City 1. *Asst. Prof.* (**3,** 1953)

Fink, Kay, Ph.D. Veterans Admin. Hospital, Long Beach, Calif. *Research Biochemist; Assoc. Clinical Prof. of Biophysics, UCLA.* (**2,** 1953)

Fink, Mary A., Ph.D. Univ. of Colorado School of Medicine, Denver 20. *Instructor in Microbiology.* (**6,** 1955)

Fink, Robert M., Ph.D. Univ. of California Med. Center, Los Angeles 24. *Assoc. Prof., Physiological Chemistry.* (**2,** 1953)

Finland, Maxwell, M.D. Boston City Hospital, Boston, Mass. *Assoc. Prof. of Medicine, Harvard Med. School.* (**6,** 1941)

Finnegan, J. K., Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Firminger, Harlan I., M.D. Univ. of Kansas School of Medicine, Kansas City. *Prof. of Pathology and Oncology.* (**4,** 1954)

Firor, Warfield Monroe, M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Surgery, Johns Hopkins Univ.* (**1,** 1932)

Fischel, Edward E., M.D., Sc.D., Med. Bronx Hosp., New York City 56. *Dir., Dept. of Medicine.* (**6,** 1948)

Fischer, Edmund H., Ph.D. Univ. of Washington School of Medicine, Dept. of Biochemistry, Seattle 5. *Asst. Prof.* (**2,** 1955)

Fischer, Ernst, M.D. Med. College of Virginia, Richmond. *Research Prof. of Physiology.* (**1,** 1936)

Fischer, Hermann O. L., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Chairman of Dept.* (**2R,** 1940)

Fischer, Marie A., Ph.D. Univ. of Pittsburgh School of Medicine, Biochemistry Dept., Pittsburgh 13, Pa. *Asst. Prof.* (**2,** 1954)

Fischer, Martin H., M.D. Univ. of Cincinnati, 107 Physics Bldg., Cincinnati 21, Ohio. *Prof. Emeritus of Physiology.* (**1,** 1901; **2R,** 1919)

Fishberg, Ella H., M.D. Beth Israel Hospital, Stuyvesant Park E., New York City. *Dir., Biochem. Lab.* (**2,** 1931)

Fisher, Albert Madden, Ph.D. Univ. of Toronto, Connaught Med. Research Labs., Insulin Committee, 150 College St., Toronto 5, Canada. *Asst. Dir., Connaught Labs.; Exec. Secy., Insulin Com.* (**2,** 1944)

Fisher, Edwin R., M.D. VA Hosp., Pittsburgh 40, Pa. *Chief, Lab. Service.* (**4,** 1954)

Fisher, Kenneth C., Ph.D. Univ. of Toronto, Dept. of Zoology, Toronto, Canada. *Assoc. Prof. of Animal Physiology.* (**1,** 1940)

Fishman, Alfred P., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Medicine, 620 W. 168th St., New York City 32. *Asst. Prof. of Medicine and Dir., Cardiorespiratory Lab.* (**1,** 1952)

Fishman, William H., Ph.D. Tufts Univ. Med. School, 30 Bennet St., Boston 15, Mass. *Research Prof., Biochemistry and Nutrition.* (**2,** 1947)

Fiske, Cyrus H., M.D. Harvard Med. School,

Boston, Mass. *Prof. of Biological Chemistry.* (**2,** 1914)

Fitzgerald, Mabel P. 12 Crick Rd., Oxford, England. (**1R,** 1913)

Fitzhugh, O. Garth, Ph.D. Food and Drug Admin., Div. of Pharmacology, Washington, D. C. *Chief, Chronic Toxicity Branch.* (**3,** 1940)

Flavin, Martin, Jr., M.D., Ph.D. New York Univ. Med. School, Biochemistry Dept., New York City. *Fellow.* (**2,** 1955)

Fleischmann, Walter, M.D., Ph.D. V. A. Hospital, Memphis 4, Tenn. *Chief, Lab. Service; Asst. Prof. in Pediatrics, Univ. of Tennessee.* (**1,** 1940)

Fleisher, Moyer S., M.D. Jewish Hospital, 216 S. Kingshighway Blvd., St. Louis, Mo. *Research Bacteriologist.* (**4,** 1924; **6,** 1932)

Flexner, Louis B., M.D. Univ. of Pennsylvania School of Medicine, Dept. of Anatomy, Philadelphia 4. *Prof. and Chairman of Dept.* (**1,** 1933; **2,** 1948)

Flick, John A., M.D. Univ. of Pennsylvania Grad. School of Medicine, Dept. of Bacteriology, Philadelphia 4. *Assoc. Prof., Med. Microbiology; Chairman, Dept. of Microbiology.* (**6,** 1949)

Flock, Eunice V., Ph.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. in Exper. Medicine, Mayo Foundation, Univ. of Minnesota.* (**2,** 1940)

Florman, Alfred L., M.D. North Shore Hosp., Manhasset, N. Y. *Dir. of Pediatrics.* (**6,** 1942)

Flosdorf, Earl W., Ph.D. Forest Grove, Pa. *Dir. of Research, F. J. Stokes Machine Co., Philadelphia.* (**6,** 1941)

Floyd, Cleveland, M.D., Sc.D. 412 Beacon St., Boston, Mass. *Consultant, Boston Health Dept.* (**6,** 1916)

Flynn, Joseph E., M.D. Pathology Dept., Univ. of Missouri Med. School, Columbia. (**4,** 1953)

Foa, Piero Pio, Ph.D., M.D. 710 S. Wolcott St., Chicago, Ill. *Prof. of Physiology and Pharmacology, Chicago Med. School.* (**1,** 1944)

Fodor, Paul J., Ph.D. New York Med. College, Biochemistry Dept., 5th Ave. at 105th St., New York City 29. *Asst. Prof.* (**2,** 1954)

Folch, Jordi, M.D. McLean Hospital, Waverley, Mass. *Assoc. Prof. of Biological Chemistry, Harvard Med. School; Dir. of Scientific Research, McLean Hospital.* (**2,** 1941)

Foldes, Francis F., M.D. Mercy Hospital, 1400–1430 Locust St., Pittsburgh 19, Pa. *Dir. of Anesthesiology.* (**3,** 1952)

Folk, G. Edgar, Jr., Ph.D. State Univ. of Iowa Med. School, Iowa City. *Assoc. Prof. of Physiology.* (**1,** 1953)

Folkers, Karl, Ph.D. Merck & Co., Inc., Rahway, N. J. *Dir., Fundamental Research.* (**2,** 1947; **5,** 1954)

Follensby, Edna M., Ph.D. 80 E. Concord St., Boston, Mass. *Research Assoc., Boston Univ. School of Medicine.* (**6,** 1933)

Follis, Richard H., Jr., M.D. Armed Forces Inst. of Pathology, Walter Reed Army Med. Ctr., Washington 25, D. C. (**4,** 1942)

Foltz, Elwood L., M.D. Univ. of Pennsylvania, School of Medicine, Philadelphia 4. *Asst. Prof. in Medicine; Assoc. in Clin. Pharmacology.* (**1,** 1952; **3,** 1955)

Fong, Jacob, Ph.D. 2640 Derby St., Berkeley 5, Calif. *Assoc. Prof. of Bacteriology, Univ. of California.* (**6,** 1951)

Fontaine, Thomas D., Ph.D. U. S. Senate Office Bldg., Washington 25, D. C. *Adm. Asst. to Sen. John C. Stennis.* (**2,** 1946)

Foot, Nathan Chandler, M.D. Cornell Univ. Med. College, New York City. *Consultant.* (**4,** 1924)

Foraker, Alvan Glenn, M.D. Baptist Memorial Hosp., Jacksonville, Fla. *Pathologist; Physician.* (**4,** 1954)

Forbes, Alexander, A.M., M.D. Harvard University, Biological Labs., Divinity Ave., Cambridge, Mass. *Prof. of Physiology.* (**1,** 1910)

Forbes, Ernest B., Ph.D. State College, Pa. *Prof. Emeritus of Animal Nutrition.* (**1R,** 1917; **5R,** 1935)

Forbes, Henry S., M.D. 71 Forest St., Milton 86, Mass. (**1R,** 1931)

Forbes, John C., Ph.D. Med. College of Virginia, Richmond. *Research Prof. of Biochemistry.* (**2,** 1937)

Forbes, Richard M., Ph.D. Univ. of Illinois, Div. of Animal Nutrition, Urbana. *Professor.* (**5,** 1953)

Forbes, William H., Ph.D. Harvard School of Public Health, 55 Shattuck St., Boston, Mass. (**1,** 1943)

Forney, Robert B., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Assoc. Prof. of Toxicology.* (**3,** 1950)

Forssander, C. A., M.D. Dept. of Physical Medicine and Rehabilitation, Montreal Gen. Hosp., Montreal, Canada. (**1,** 1950)

Forster, Francis M., M.D. 3800 Reservoir Rd., Washington, D. C. *Prof. and Dir. of Dept of Neurology, Georgetown Univ. School of Medicine,* (**1,** 1948)

Forster, Robert Elder, II, M.D. 721 Millbrook Lane, Haverford, Pa. *Assoc. Prof. of Physiology, Grad. School of Medicine, Univ. of Pennsylvania.* (**1,** 1951)

Forster, Roy P., Ph.D. Dartmouth College, Dept. of Zoology, Hanover, N. H. *Professor.* (**1,** 1950)

Fosdick, Leonard S., Ph.D. 311 E. Chicago Ave., Chicago, Ill. *Prof. of Chemistry, Northwestern Univ.* (**2,** 1944)

Foster, G. L., Ph.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City. *Prof. of Biological Chemistry.* (**2,** 1923)

Foster, Harry E., M.D. Stanford Ct., California

at Powell, San Francisco, Calif. *Retired Med. Dir., Cutter Labs.* (6, 1913)

Foster, Jackson W., Ph.D. Univ. of Texas, Dept. of Bacteriology, Austin 12. *Prof. of Bacteriology.* (2, 1946)

Foster, Joseph F., Ph.D. Dept. of Chemistry, Purdue Univ., Lafayette, Ind. *Assoc. Prof.* (2, 1952)

Foster, Robert H. K., Ph.D., M.D. 301 E. Jefferson St., Franklin, Ind. *Practicing Physician.* (1, 1940; 3, 1944)

Foster, William C., M.S. Hahnemann Med. College, 235 North 15th St., Philadelphia 2, Pa. *Research Assoc.; Teaching Asst. in Physiology.* (1, 1952)

Fowler, Ward S., M.D. Mayo Foundation, Dept. of Physiology, Rochester, Minn. *Assoc. Prof.* (1, 1950)

Fox, Charles L., Jr., M.D. New York Med. College, Flower and Fifth Ave. Hospitals, New York City 29. *Research Assoc. in Surgery; Assoc. in Physiology.* (1, 1951; 6, 1951)

Fox, Jack J., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Associate.* (2, 1954)

Fox, John P., M.D. Tulane Univ. School of Medicine, 1430 Tulane Ave., New Orleans, La. *Prof. of Epidemiology.* (6, 1953)

Fox, Sidney W., Ph.D. Florida State Univ., Oceanographic Inst., Tallahassee. *Dir. and Prof. of Marine Sciences.* (2, 1946)

Fraenkel, Gottfried S., Ph.D. Univ. of Illinois, Urbana. *Prof. of Entomology.* (5, 1949)

Fraenkel-Conrat, Heinz, M.D., Ph.D. Univ. of California, Virus Lab., Berkeley. *Assoc. Biochemist.* (2, 1942)

Francis, Thomas, Jr., M.D. Univ. of Michigan School of Public Health, Ann Arbor. *Henry Sewall Univ. Prof. of Epidemiology; Chairman of Dept.* (4, 1940; 6, 1930)

Frank, Karl, Ph.D. Natl. Inst. of Neurological Diseases and Blindness, NIH, Bethesda, Md. *Neurophysiologist, Spinal Cord Sec., Lab. of Neurophysiology.* (1, 1953)

Franke, Florent E., M.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis, Mo. *Assoc. Prof. of Physiology.* (1, 1934)

Frantz, Ivan D., Jr., M.D. Univ. of Minnesota, Dept. of Medicine, Minneapolis 14. *Research Prof.* (2, 1953)

Fraps, R. M., Ph.D. USDA, Agric. Research Service, Beltsville, Md. *Physiologist.* (1, 1947)

Fraser, Havelock F., M.D. Public Health Service Hospital, Lexington, Ky. *Asst. Dir., Addiction Research Center, Natl. Inst. of Mental Health.* (3, 1952)

Frawley, John P., Ph.D. Food and Drug Admin., Div. of Pharmacology, Washington 25, D. C. (3, 1953)

Fredette, Victorien. Univ. of Montreal, Montreal, Que., Canada. *Assoc. Prof. of Bacteriology; Assoc. Dir., Inst. of Microbiology.* (6, 1948)

Free, Alfred H., Ph.D. Miles-Ames Research Lab., Elkhart, Ind. *Head of Biochemistry Section.* (2, 1946; 5, 1944)

Freedberg, A. Stone, M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Assoc. Dir., Med. Research Dept.; Asst. Prof. of Medicine, Harvard Med. School.* (1, 1952)

Freeman, Harry, M.D. Worcester State Hospital, Worcester, Mass. *Dir. of Research.* (1, 1939)

Freeman, Leslie Willard, Ph.D., M.D. Indiana Univ., Dept. of Surgery, Indianapolis. *Prof. of Surgery; Dir., Surgical Exptl. Labs.* (1, 1944)

Freeman, Norman E., M.D. Univ. of California Med. School, Dept. of Surgery, San Francisco 22. (1, 1936)

Freeman, Smith, M.D., Ph.D. Northwestern Univ. School of Medicine, 303 E. Chicago Ave., Chicago, Ill. *Prof. and Chairman of Dept. of Biochemistry.* (1, 1937)

Fregly, Melvin J., Ph.D. Harvard Med. School, Boston 15, Mass. *Instr. in Physiology.* (1, 1955)

Freiman, David G., M.D. Univ. of Cincinnati College of Medicine, Cincinnati Gen. Hosp., Cincinnati, Ohio. *Assoc. Prof. of Pathology.* (4, 1954)

Freis, Edward D., M.D. Georgetown Univ. Hosp., Washington 7, D. C. *Chief, Cardiovascular Research Lab.* (3, 1955)

French, C. Stacy, Ph.D. Carnegie Institution of Washington, Stanford, Calif. *Dir., Dept. of Plant Biology.* (2, 1946)

French, Cyrus E., Ph.D. Dept. of Animal Nutrition, Pennsylvania State Univ., University Park. *Professor.* (5, 1948)

French, Dexter, Ph.D. Iowa State College, Dept. of Chemistry, Ames. *Professor.* (2, 1953)

Frenkel, Jacob Karl, M.D., Ph.D. Univ. of Kansas School of Medicine, Kansas City 12. *Asst. Prof. of Pathology.* (4, 1953)

Freund, Jules, M.D. Public Health Research Inst. of the City of New York, New York City 9. *Chief, Div. of Immunology.* (6, 1924)

Frey, Charles N., Ph.D. 45 Cambridge Rd., Scarsdale, N. Y. (5, 1948)

Freyburger, Walter A., Jr., Ph.D. Upjohn Co., Kalamazoo, Mich. *Pharmacologist.* (3, 1951)

Fried, Josef, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dept. Head, Div. of Organic Chemistry.* (2, 1948)

Friedberg, Felix, Ph.D. Howard Univ. Med. School, Dept. of Biochemistry, Washington 1, D. C. *Asst. Prof.* (2, 1951)

Friedemann, Theodore E., Ph.D. HQ Army Med. Nutrition Lab., Fitzsimons Army Hosp., Denver 8, Colo. *Scientific Dir.* (2, 1925; 5, 1952)

Frieden, Edward H., Ph.D. New England Med. Center, 25 Bennett St. Boston 11, Mass. *Asst. Prof. of Biochemistry, Tufts College Med. School; Dir., Arthritis Research Lab.* (**2,** 1950)

Friedenwald, Jonas S., M.D. 1212 Eutaw Place, Baltimore 17, Md. *Assoc. Prof. of Ophthalmology, Johns Hopkins Hospital.* (**1,** 1947)

Friedewald, William F., M.D. Emory Univ. School of Medicine, Atlanta, Ga. *Assoc. Prof. of Medicine.* (**4,** 1941)

Friedgood, Harry B., M.D. Diagnostic Clinic, 318 W. Woodruff St., Toledo, Ohio. *Med. Dir. and Physician-in-Chief.* (**1,** 1936)

Friedkin, Morris Enton, Ph.D. Washington Univ. Med. School, Dept. of Pharmacology, St. Louis 10, Mo. *Asst. Prof. of Pharmacology.* (**2,** 1951)

Friedman, M. H. F., Ph.D. Jefferson Med. College of Philadelphia, 1025 Walnut St., Philadelphia, Pa. *Prof. of Physiology.* (**1,** 1941)

Friedman, Maurice H., Ph.D., M.D. 2040 Belmont Rd., Washington 9, D. C. (**1,** 1929)

Friedman, Meyer, M.D. Harold Brunn Inst. for Cardiovascular Research, Mt. Zion Hospital, 1600 Divisadero St., San Francisco, Calif. *Director.* (**1,** 1947)

Friedman, Nathan B., M.D. Cedars of Lebanon Hospital, Div. of Labs., 4833 Fountain Ave., Los Angeles, Calif. *Director.* (**4,** 1942)

Friedman, Sydney M., M.D., Ph.D. Univ. of British Columbia, Vancouver, B.C., Canada. *Prof. and Head, Dept. of Anatomy.* (**1,** 1947)

Friedman, Townsend B. 104 S. Michigan Ave. Chicago 3, Ill. (**6,** 1948)

Friend, Dale G., M.D. Harvard Med. School, Boston 15, Mass. *Assoc. in Medicine; Sr. Assoc. in Medicine, Peter Bent Brigham Hosp.* (**3,** 1955)

Fritz, James C., B.S. Dawe's Labs., Inc. 4800 S. Richmond St., Chicago 32, Ill. *Dir. of Nutrition Research.* (**5,** 1951)

Frost, Douglas Van Anden, Ph.D. Abbott Labs., N. Chicago, Ill. *Head of Nutritional Research.* (**2,** 1946; **5,** 1947)

Fruton, J. S., Ph.D. Yale School of Medicine, 333 Cedar St., New Haven, Conn. *Prof. of Biochemistry.* (**2,** 1938)

Fry, William J., M.S. Univ. of Illinois, Bioacoustics Lab., Urbana. *Head of Lab.; Research Prof.* (**1,** 1954)

Fugo, Nicholas W., Ph.D., M.D. Univ. of Chicago, Dept. of Obstetrics and Gynecology, Chicago, Ill. *Asst. Prof.* (**3,** 1944)

Fuhrman, Frederick A., Ph.D. Stanford Univ., Stanford, Calif. *Assoc. Prof. of Physiology.* (**1,** 1946)

Fukushima, David K., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 East 68th St., New York City 21. *Assoc., Steroid Biochemistry.* (**2,** 1952)

Fuld, Maria, Ph.D. Univ. of Pittsburgh, Grad. School of Public Health, Pittsburgh, Pa. *Asst. Prof. of Biochemistry.* (**2,** 1953)

Fuller, John L., Ph.D. Box 847, Bar Harbor, Maine. *Research Assoc., Jackson Memorial Lab.* (**1,** 1954)

Fulton, George P., Ph.D. Boston Univ., Dept. of Biology, 675 Commonwealth Ave., Boston, Mass. *Professor.* (**1,** 1950)

Fulton, John Farquhar, Ph.D., M.D. Yale Univ. School of Medicine, New Haven, Conn. *Sterling Prof. of Physiology.* (**1,** 1925)

Funderburk, William H., Ph.D. Traverse City State Hospital, Box C, Traverse City, Mich. *Diagnostician.* (**3,** 1953)

Funk, Casimir, D.Sc., Ph.D. 186 Riverside Drive, New York City 24. *Pres., Funk Fndn. for Med. Research.* (**2R,** 1921)

Fuortes, M. G. F., M.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Neuropsychiatry Div., Washington 12, D. C. *Neurophysiologist.* (**1,** 1952)

Furchgott, Robert F., Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Pharmacology.* (**2,** 1948; **3,** 1952)

Furth, Jacob, M.D. Children's Cancer Research Fndn., 35 Binney St., Boston 15, Mass. *Assoc. Dir., Research.* (**4,** 1932)

Gabrio, Beverly Wescott, Ph.D. Univ. of Washington, School of Medicine, Seattle. *Research Asst. Prof. in Medicine.* (**2,** 1954)

Gaddum, John H., ScD., F.R.S. Univ. of Edinburgh, Edinburgh, Scotland. *Prof. of Pharmacology.* (**3,** 1950)

Gaebler, Oliver H., Ph.D., M.D. Henry Ford Hospital, Detroit Mich. *Head,, Dept. of Biochemistry, Edsel B. Ford Inst. for Med. Research.* (**2,** 1927)

Gaffron, Hans, Ph.D. Univ. of Chicago, Research Insts., 5650 Ellis Ave., Chicago 37, Ill. *Prof. of Biochemistry, Dept. of Biochemistry and Research Insts.* (**2,** 1941)

Gagge, Adolf P., Ph.D. HQ, ARDC, Office of Scientific Research, Box 1395, Baltimore 3, Md. *Col. USAF.* (**1,** 1939)

Gal, Emery M., Ph.D. Univ. of California Med. Ctr., Los Angeles 24. *Asst. Prof. , Dept. of Pharmacology.* (**2,** 1955)

Galambos, Robert, Ph.D., M.D. Army Med. Service Grad. School, Dept. of Neurophysiology, Washington 12, D. C. *Chief.* (**1,** 1942)

Galdston, Morton, M.D. Goldwater Memorial Hospital, New York Univ. Research Service, Welfare Island, New York City 17. *Asst. Prof. of Medicine, New York Univ. College of Medicine.* (**1,** 1950)

Gall, Edward A., M.D. Cincinnati General Hospital, Cincinnati, Ohio. *Mary M. Emery Prof.*

of Pathology, Univ. of Cincinnati College of Medicine. (**4,** 1941)

Gallagher, Thomas F., Ph.D. Sloan-Kettering Inst., 410 E. 68th St., New York City 21. *Chief, Divs. Steroid Metabolism and Steroid Biochemistry.* (**2,** 1932)

Gallup, Willis D., Ph.D. Oklahoma Agricultural and Mechanical College, Stillwater. *Chemist and Prof. of Agricultural Chemistry.* (**2,** 1932)

Gamble, James L., M.D., S.M. 33 Edgehill Rd., Brookline, Mass. *Prof. Emeritus of Pediatrics, Harvard Med. School.* (**2R,** 1922; **5R,** 1933)

Gantt, W. Horsley, M.D. Johns Hopkins Hospital, Phipps Psychiatric Clinic, Baltimore, Md. *Assoc. Prof. of Psychiatry.* (**1,** 1935; **3,** 1954)

Garb, Solomon, M.D. Cornell Univ. Med. College, Dept. of Pharmacology, 1300 York Ave., New York City 21. *Asst. Prof. of Clin. Pharmacology.* (**3,** 1951)

Garbat, Abraham L., M.D. 103 E. 78th St., New York City. *Dir., Med. Service, Lenox Hill Hospital; Clin. Prof. of Medicine, New York Univ. Med. School.* (**6,** 1913)

Gardner, Ernest, M.D. Wayne Univ. College of Medicine, 1401 Rivard St., Detroit 7, Mich. *Prof. of Anatomy.* (**1,** 1949)

Garner, Raymond L., Ph.D. Univ. of Michigan Med. School, 220 W. Med. Bldg., Ann Arbor. *Assoc. Prof. of Biological Chemistry.* (**2,** 1947)

Garst, Josephine B., Ph.D. Univ. of California School of Medicine, Dept. of Obstetrics and Gynecology, Los Angeles 24. *Asst. Research Physiological Chemist.* (**2,** 1955)

Gasser, Herbert S., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member, Emeritus.* (**1,** 1915; **3,** 1924)

Gassner, Frank X., D.V.M. Colorado A and M College, Fort Collins. *Prof. of Endocrine Research, Colorado State Exper. Station.* (**1,** 1947)

Gasteiger, Edgar L., Jr., Ph.D. Harvard Med. School, Physiology Dept., Boston 15, Mass. *Asst. Prof.* (**1,** 1954)

Gates, Olive, M.D. Cancer Comm. of Harvard Univ., Lab. of Pathology, 194 Pilgrim Rd., Boston, Mass. *Assoc. Pathologist.* (**4,** 1940)

Gaudino, Mario, M.D., Ph.D. 27 W. 9th St., New York City 11. *Research Assoc., New York Univ.-Bellevue Med. Center.* (**1,** 1951)

Gauer, Otto H., M.D. Kerckhoff Inst., Bad Nauheim, West Germany. (**1,** 1954)

Gaunt, Robert, Ph.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Dir., Endocrine Research.* (**1,** 1939)

Gay, Leslie N., M.D. 1114 St. Paul St., Baltimore, Md. (**6,** 1927)

Geary, John R., Jr., M.D. Univ. of California School of Medicine, Los Angeles 24. *Asst. Prof. of Pathology.* (**4,** 1954)

Gebhardt, Louis P., M.D. Univ. of Utah College of Medicine, Salt Lake City 12. *Prof. and Head of Dept. of Bacteriology.* (**6,** 1954)

Geddes, William F., Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, St. Paul 1. *Prof. and Head of Dept.* (**2,** 1953)

Geiger, Ernest, M.D., Ph.D. 4233 Don Ortega Pl., Los Angeles 8, Calif. *Prof. of Pharmacology and Toxicology, Univ. of Southern California Med. School, Los Angeles; Dir. of Research, Van Camp Seafood Co., Terminal Island.* (**5,** 1950)

Geiling, E. M. K., M.D., Ph.D. Univ. of Chicago, Chicago 37, Ill. *Chairman of Dept. of Pharmacology.* (**1,** 1933; **2,** 1927; **3,** 1925)

Geiman, Quentin M., Ph.D. Stanford Univ. School of Medicine, Dept. of Preventive Medicine, San Francisco, Calif. *Prof. of Tropical Public Health.* (**4,** 1955)

Gelfan, Samuel, Ph.D. 1249 Fifth Ave., New York City 29. *Research Assoc. in Neurology and Neurosurgery, New York Med. College.* (**1,** 1930)

Gell, C. F., M.D. Naval Air Materiel Ctr., Naval Base, Philadelphia, Pa. *Supt., Aero-Med. Lab.* (**1,** 1955)

Gellhorn, Alfred, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Dir., Inst. of Cancer Research.* (**3,** 1946)

Gellhorn, Ernst, M.D., Ph.D. Univ. of Minnesota, Room 116, Med. Sciences, Minneapolis. *Prof. of Neurophysiology.* (**1,** 1930)

Gemmill, Chalmers L., M.D. Univ. of Virginia Med. School, Charlottesville. *Prof. of Pharmacology.* (**1,** 1928; **2,** 1935; **3,** 1946)

Gerard, R. W., Ph.D., M.D. Univ. of Michigan, Dept. of Psychiatry, Ann Arbor. *Prof. of Neurophysiology.* (**1,** 1927)

Gergely, John, M.D., Ph.D. Massachusetts General Hospital, Cardiovascular Research Lab., Boston. *Assoc. Biochemist; Established Investigator, Am. Heart Assn.; Research Assoc. in Medicine, Harvard Med. School.* (**2,** 1952)

Gerheim, Earl B., Ph.D. Sherman Labs., 5031 Grandy, Detroit 11, Mich. *Dir., Pharmacology Dept.* (**1,** 1950; **6,** 1950)

Germuth, Frederick G., Jr., M.D. Johns Hopkins Hosp., Baltimore, Md. *Assoc. Prof. of Pathology, Johns Hopkins Med. School.* (**6,** 1954)

Gerschman, Rebeca, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Dept. of Physiology, Rochester 20, N. Y. *Associate.* (**1,** 1955)

Gersh, Isidore, Ph.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Anatomy.* (**4,** 1947)

Gershberg, Herbert, M.D. New York Univ. College of Medicine, 550 First Ave., New York City. *Asst. Prof. of Physiology-Medicine.* (**1,** 1954)

Gersten, Jerome W., M.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver 20. *Assoc.*

Prof. of Physical Medicine and Rehabilitation. (1, 1951)

Gest, Howard, Ph.D. Western Reserve Univ., School of Medicine, Dept. of Microbiology, Cleveland 6, Ohio. *Assoc. Prof.* (2, 1952)

Gettler, Alexander O., Ph.D. 400 E. 29th St., New York City 16. *Prof. Emeritus of Chemistry New York Univ.; Toxicologist to Chief Med. Examiner's Office of the City of New York.* (2R, 1916)

Gey, George Otto, M.D. Johns Hopkins Univ., Baltimore, Md. *Asst. Prof. of Surgery.* (1, 1940)

Geyer, Robert P., Ph.D. Harvard School of Public Health, Dept. of Nutrition, Boston, Mass. *Asst. Prof.* (5, 1950)

Giarman, Nicholas J., Ph.D. Yale Univ. Med. School, Dept. of Pharmacology, New Haven, Conn. *Assoc Prof.* (3, 1953)

Gibbard, J., S.M., F.R.S.C. Dept. of Natl. Health and Welfare, Ottawa, Ont., Canada. *Dir., Lab. of Hygiene.* (6, 1946)

Gibbs, Frederick Andrews, M.D. 720 N. Michigan Ave., Suite 610. Chicago, Ill. (1, 1935)

Gibbs, Martin, Ph.D. Brookhaven Natl. Lab., Dept. of Biology, Upton, L. I., N. Y. *Plant Physiologist.* (2, 1953)

Gibbs, Owen Stanley, M.D. P. O. Box 5387, Whitehaven, Memphis 16, Tenn. (3, 1930)

Gibson, Robert Banks, Ph.D. Univ. Hospital, Iowa City, Iowa. *Emeritus Prof. of Biochemistry, State Univ. of Iowa.* (2R, 1906)

Gies, William John, Ph.D. Columbia Univ., 630 W. 168th St., New York City. *Retired Prof. of Biological Chemistry.* (1R, 1898; 2R, 1906; 3R, 1909)

Gilbert, James B., M.D. Natl. Cancer Inst., Lab. of Biochemistry, NIH, Bethesda 14, Md. *Surgeon, PHS.* (2, 1955)

Gillis, Marvin B., Ph.D. International Minerals and Chemical Corp., Skokie, Ill. *Mgr., Research in Organic and Biological Sciences.* (5, 1952)

Gilman, Alfred, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Pharmacology.* (1, 1935; 3, 1934)

Gilson, Arthur S., Jr., Ph.D. Washington Univ. Med. School, St. Louis, Mo. *Assoc. Prof. of Physiology.* (1, 1927)

Gilvarg, Charles, Ph.D. New York Univ.-Bellevue Med. Ctr., Dept. of Biochemistry, New York City 16. *Asst. Prof.* (2, 1955)

Ginsberg, Harold S., M.D. Western Reserve Univ. School of Medicine, Dept. of Preventive Medicine, Cleveland 6, Ohio. *Assoc. Prof.* (6, 1951)

Githens, Thomas S., M.D. The Cambridge, Philadelphia 44, Pa. (1R, 1915)

Givens, Maurice H., Ph.D. Box 5116, Biltmore, N. C. (1, 1917; 2, 1915)

Gjessing, Erland Cheney, Ph.D. Univ. of Vermont College of Medicine, Burlington. *Assoc. Prof., Dept. of Biochemistry.* (2, 1948)

Glaser, Robert Joy, M.D. Washington Univ. School of Medicine, David P. Wohl, Jr. Memorial Hosp., St. Louis, Mo. *Assoc. Dean and Asst. Prof.* (4, 1954)

Glass, George B. Jerzy, M.D. New York Med. College, Flower and Fifth Ave. Hospitals, New York City. *Assoc. Prof. of Medicine.* (1, 1953)

Glass, Howard G., M.D., Ph.D. Miles-Ames Research Lab., Elkhart, Ind. *Pharmacologist.* (3, 1947)

Glazko, Anthony J., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Research Biochemist.* (1, 1942)

Glick, David, Ph.D. Univ. of Minnesota, Dept. of Physiological Chemistry, 180 Lyon Labs; Minneapolis 14. *Professor.* (2, 1936)

Glickman, Nathaniel, M.S. 970 So. Shore Dr., Miami Beach, Fla. (1, 1947)

Gluckman, Melvyn I., Ph.D. Jefferson Med. College, Dept. of Pharmacology, 1025 Walnut St., Philadelphia 7, Pa. *Instructor.* (3, 1954)

Gochenour, William S., Jr., V.M.D. Army Med. Center, Army Med. Service Grad. School, Veterinary Div., Washington 12, D. C. *Chief, Dept. of Veterinary Bacteriology.* (6, 1950)

Goddard, David R., Ph.D. Univ. of Pennsylvania, Dept. of Botany, Philadelphia 4. *Prof. of Botany.* (2, 1953)

Godwin, John T., M.D. St. Joseph's Infirmary, 272 Courtland St., N.E., Atlanta, Ga. *Dir. of Labs.* (4, 1954)

Goebel, Walther F., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (2, 1929; 6, 1937)

Goettsch, Marianne, Ph.D. Univ. of Puerto Rico Med. School, San Juan. *Assoc. Prof. of Biochemistry and Nutrition.* (2, 1933; 5, 1941)

Goetzl, Franz R., Ph.D., M.D. 2622 Piedmont Ave., Berkeley 4, Calif. (1, 1947)

Gold, Harry, M.D. Cornell Univ. Med. College, New York City. *Prof. of Clin. Pharmacology.* (3, 1927)

Goldbaum, Leo R., Ph.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Toxicologist.* (3, 1952)

Goldberg, Leon I., Ph.D. Massachusetts Gen. Hosp., Boston. *Research Fellow, Anesthesia Lab. of Harvard Med. School.* (3, 1953)

Goldblatt, Harry, M.D. Mt. Sinai Hosp., 1800 E. 105th St., Cleveland 6, Ohio. *Dir. of Labs.* (1, 1945; 4, 1927)

Golden, Alfred, M.D. Whittier Med. Labs., 76 Adams Ave., W., Detroit 26, Mich. (4, 1947)

Goldfarb, A. R., Ph.D. Chicago Med. School, Chicago 12, Ill. *Asst. Prof.* (2, 1955)

Goldfeder, Anna, D.Sc. 920 Riverside Dr., New York City 32. *Sr. Biologist in Charge of Cancer Research, Dept. of Hospitals, City of New York; Research Assoc., Dept. of Biology, New York Univ.* (1, 1950)

Goldforb, A. J., Ph.D. College of the City of New York, New York City. *Prof. of Biology.* **(1,** 1930)

Goldie, Horace, M.D., D.T.M. Meharry Med. College, Lab. of Exper. Oncology, Nashville 8, Tenn. *Director.* **(6,** 1943)

Goldin, Abraham, Ph.D. Natl. Cancer Inst., Lab. of Chem. Pharmacology, Bethesda 14, Md. *Biologist.* **(1,** 1951)

Goldman, David E., Ph.D. Box 39, Navy 100, % FPO, New York City. **(1,** 1951)

Goldman, Dexter S., Ph.D. VA Hosp., Madison 5, Wis. *Chief Biochemist; Asst. Prof., Inst. for Enzyme Research.* **(2,** 1955)

Goldring, William, M.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Assoc. Prof. of Medicine.* **(1,** 1939)

Goldsmith, E. D., Ph.D. New York Univ., 209 E. 23rd St., New York City 10. *Prof. of Histology, Grad. School of Arts and Sciences; Prof. of Histology and Research Coordinator, College of Dentistry.* **(1,** 1950)

Goldsmith, Grace A., M.D. Tulane Univ. of Louisiana, New Orleans. *Prof. of Medicine.* **(5,** 1943)

Goldstein, Avram, M.D. Stanford Univ., Dept. of Pharmacology, 2398 Sacramento, San Francisco, Calif. *Prof. and Exec. Head of Dept.* **(3,** 1948)

Goldstein, M. S., M.D. Michael Reese Hosp., 29th St. and Ellis Ave., Chicago 16, Ill. *Asst. Dir., Dept. of Metabolic and Endocrine Research; Lecturer, Univ. of Chicago, Dept. of Physiology.* **(1,** 1954)

Gollan, Frank, M.D. Veterans Admin. Hospital, Research Lab., Nashville, Tenn. *Asst. Dir. Isotope Unit.* **(1,** 1950)

Golub, Orville Joseph, Ph.D. Bio-Science Labs., Inc., 2231 S. Carmelina Ave., Los Angeles 64, Calif. *Vice Pres.* **(6,** 1944)

Gomori, George, M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Medicine.* **(4,** 1948)

Goodale, Walter T., M.D. 19 Gypsy Trail, Waban, Mass. *Instr., Harvard Med. School; Assoc. in Medicine, Peter Bent Brigham Hospital.* **(1,** 1949)

Goodman, Irving, Ph.D. Wellcome Research Labs., Tuckahoe 7, N. Y. *Sr. Research Chemist.* **(2,** 1954)

Goodman, Louis Sanford, M.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. of Pharmacology and Chairman of Dept. of Pharmacology.* **(1,** 1946; **3,** 1937)

Goodman, Morris, Ph.D. Detroit Inst. of Cancer Research, 4811 John R St., Detroit 1, Mich. *Research Assoc.* **(6,** 1953)

Goodner, Kenneth, Ph.D. Jefferson Med. College, Philadelphia, Pa. *Prof. of Bacteriology and Immunology.* **(6,** 1932)

Goodpasture, Ernest William, M.D. Armed Forces Inst. of Pathology, Washington 25, D. C. *Scientific Dir. of Pathology.* **(4,** 1923)

Goranson, Ewald S., Ph.D. Univ. of British Columbia, Dept. of Biology and Botany, Vancouver, Canada. *Assoc. Prof. of Physiology.* **(1,** 1952)

Gordon, Albert S., Ph.D. New York Univ., Grad. School of Arts and Sciences, New York City 3. *Prof. of Biology.* **(1,** 1942)

Gordon, Archer S., M.D., Ph.D. Univ. of Illinois College of Medicine, Dept. of Clinical Science, Chicago. *Research Assoc.* **(1,** 1953)

Gordon, Francis B., Ph.D., M.D. Naval Med. Research Inst., Bethesda 14, Md. *Supervising Bacteriologist.* **(4,** 1947)

Gordon, Harry H., M.D. Sinai Hospital of Baltimore, Monument St. and Rutland Ave., Baltimore 5, Md. *Pediatrician-in-Chief.* **(5,** 1940)

Gordon, Irving, M.D. Univ. of Southern California, School of Medicine, Los Angeles 7. *Prof. and Chairman of Dept. of Med. Microbiology.* **(6,** 1943)

Gordon, William G., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia 18, Pa. *Chemist, in Charge Protein Structure Section.* **(2,** 1939)

Gorham, John R., Ph.D. Washington State College, Bureau of Animal Industry, Pullman. *Veterinarian.* **(6,** 1952; **4,** 1953)

Gortner, Ross Aiken, Jr., Ph.D. Wesleyan Univ., Shanklin Lab., Middletown, Conn. *Prof. of Biochemistry.* **(5,** 1947)

Gortner, Willis A., Ph.D. Pineapple Research Inst. of Hawaii, Honolulu, T. H. *Head of Dept. of Chemistry.* **(2,** 1947)

Goss, Harold, Ph.D. Univ. of California College of Agriculture, Davis. *Prof. of Animal Husbandry.* **(2,** 1936; **5,** 1933)

Gosselin, Robert E., Ph.D., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Asst. Prof. of Pharmacology.* **(1,** 1955)

Goth, Andres, M.D. Univ. of Texas, Southwestern Med. College, 5323 Harry Hines Blvd., Dallas 19. *Prof. of Pharmacology and Head of Dept.* **(3,** 1947)

Gottschall, Russell Y., Ph.D. Michigan Dept. of Health, Div. of Labs., Lansing. *Bacteriologist.* **(6,** 1939)

Goudsmit, Arnoldus, M.D., Ph.D. 2218 Market St., Youngstown 7, Ohio. **(1,** 1940)

Gould, R. Gordon, Ph.D. Los Alamos Scientific Lab., Los Alamos, N. M. *Staff Member, Health Div.* **(2,** 1949)

Gourley, Desmond R. H., Ph.D. Univ. of Virginia Med. School, Dept. of Pharmacology, Charlottesville. *Assoc. Prof.* **(1,** 1951; **3,** 1954)

Govier, William M., M.D. Schering Corp., Research Div., Bloomfield, N. J. *Dir., Dept. of Pharmacology.* **(3,** 1944)

Gowdey, Charles W., Ph.D. Univ. of Western Ontario Med. School, Dept. of Pharmacology, London, Ontario, Canada. *Assoc. Prof.* **(3,** 1950)

Grabfield, G. Philip, M.D. 15 Hutchinson St., Milton 87, Mass. **(3R,** 1923)

Grady, Hugh G., M.D. Armed Forces Inst. of Pathology, Washington, D. C. *Scientific Dir., American Registry of Pathology.* (**4,** 1940)

Graef, Irving, M.D. New York Univ., Post-Grad. Med. School, New York City. *Assoc. Prof. of Clin. Medicine.* (**4,** 1941)

Grafflin, Allan L., M.D. Johns Hopkins Univ. School of Medicine, Dept. of Anatomy, 710 N. Washington St., Baltimore 5, Md. *Prof. and Dir. of Dept.* (**1,** 1954)

Graham, Claire E., Ph.D. Wilson Labs., 4221 S. Western Ave., Chicago, Ill. *Dir. of Research.* (**2,** 1948; **5,** 1951)

Graham, Clarence H., Ph.D. Columbia Univ., New York City 27. *Prof. of Psychology.* (**1,** 1933)

Graham, Helen Tredway, Ph.D. Euclid Ave. and Kingshighway, St. Louis, Mo. *Prof. of Pharmacology, Washington Univ. School of Medicine.* (**1,** 1933; **3,** 1931)

Graham, John Borden. Univ. of North Carolina, Chapel Hill. *Assoc. Prof. of Pathology.* (**4,** 1952)

Graham, W. Donald, Ph.D. Dept. of Natl. Health and Welfare, 35 John St., Ottawa, Canada. *Pharmacologist.* (**3,** 1953)

Granick, S., Ph.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Assoc. Member.* (**2,** 1949)

Grant, Rhoda, Ph.D. Univ. of Illinois Med. College, Clinical Science Dept., 1853 West Polk St., Chicago 12, Ill. *Research Assoc.* (**1,** 1949)

Grant, R. Lorimer, Ph.D. Food and Drug Admin., Div. of Pharmacology, Dept. of Health, Education and Welfare, Washington 25, D. C. *Pharmacologist.* (**2,** 1938)

Grant, Ronald, Ph.D. Stanford Univ., Dept. of Physiology, Stanford, Calif. *Assoc. Prof.* (**1,** 1950)

Grant, Wilson Clark, Ph.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. (**1,** 1949)

Grau, Charles R., Ph.D. Univ. of California, Dept. of Poultry Husbandry, Davis. *Assoc. Prof. of Poultry Husbandry and Assoc. Nutritionist in Exper. Station.* (**5,** 1949)

Graubard, Mark, Ph.D. Univ. of Minnesota, Dept. of General Studies, Minneapolis. *Assoc. Prof.* (**1,** 1940)

Grauer, Robert C., M.D. Allegheny General Hospital, Pittsburgh, Pa. *Dir. of William H. Singer Memorial Research Lab.; Asst. Prof. of Medicine, School of Medicine, Univ. of Pittsburgh.* (**4,** 1941)

Gray, Edward LeB., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Animal Ecology Branch.* (**1,** 1951)

Gray, John S., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1937)

Gray, M. Geneva, Ph.D. Labs. of Arthur D. Little Inc., Cambridge, Mass. *Pharmacologist.* (**3,** 1946)

Gray, Stephen W., Ph.D. Emory Univ. School of Medicine, Emory Univ., Ga. *Assoc. Prof. of Anatomy.* (**1,** 1948)

Gray, William D., Ph.D. Am. Cyanamid Co., Exper. Therap. Research Sec., Pearl River, N. Y. *Group Leader in Pharmacology.* (**3,** 1955)

Graybiel, Ashton, M.D. U. S. Naval School of Aviation Medicine, Naval Air Station, Pensacola, Fla. *Dir. of Research.* (**1,** 1948)

Greeley, Paul O., Ph.D., M.D. Univ. of Southern California Med. School, Univ. Park, Los Angeles. *Dir., Student Health Service.* (**1,** 1940)

Green, Arda Alden, M.D. McCollum Pratt Inst., Johns Hopkins Univ., Baltimore 18, Md., *Research Assoc.* (**2,** 1932)

Green, Daniel M., M.D. 21 Gray Oaks Ave., Yonkers 2, N. Y. *Dir. of Research, Nepera Chemical Co., Inc.* (**1,** 1948; **3,** 1942)

Green, David E., Ph.D. Univ. of Wisconsin, Inst. of Enzyme Research, 1702 University Ave., Madison 5. *Prof. of Enzyme Chemistry.* (**2,** 1941)

Green, Harold David, M.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Prof. and Dir. of Dept. of Physiology and Pharmacology.* (**1,** 1936; **3,** 1945)

Green, John D., M.D. Univ. of California at Los Angeles, Dept. of Anatomy, Los Angeles 24. *Assoc. Prof.* (**1,** 1954)

Green, Ray E., M.D. Univ. of Kansas Med. Center, Kansas City 12. *Assoc. Prof. of Pharmacology.* (**3,** 1952)

Green, Robert Holt, M.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Assoc. Clin. Prof. of Medicine.* (**6,** 1949)

Greenberg, David Morris, Ph.D. Univ. of California, Dept. of Physiological Chemistry, Berkeley 4. *Prof. and Chairman of Dept.* (**2,** 1927)

Greenberg, G. Robert, Ph.D. Western Reserve Univ., School of Medicine, Cleveland 6, Ohio. *Assoc. Prof., Dept. of Biochemistry.* (**2,** 1952)

Greenberg, Louis, Ph.D. Lab. of Hygiene, Dept. of Natl. Health and Welfare, 45 Spencer St., Ottawa, Canada. *Chief, Biologics Control Labs.* (**6,** 1953)

Greenberg, Louis D., Ph.D. Univ. of California Med. Center, 2nd and Parnassus Aves., San Francisco 22. *Assoc. Prof. of Exper. Pathology, Univ. of California Med. School.* (**2,** 1946)

Greenberg, Ruven, Ph.D. Univ. of Illinois Med. School, Dept. of Physiology, Chicago. *Asst. Prof.* (**1,** 1950)

Greenberg, Samuel M., Ph.D. Smith, Kline & French Labs., Biochemistry Sec., Philadelphia 1, Pa. *Sr. Research Scientist.* (**5,** 1954)

Greene, Carl Hartley, Ph.D., M.D. 401 Clinton Ave., Brooklyn 38, N. Y. (**1,** 1921; **2,** 1922; **4,** 1924)

Greene, Harry S. N., M.D., C.M. Yale Univ. School of Medicine, Dept. of Pathology, New

Haven, Conn. *Anthony N. Brady Prof. of Pathology.* (**4,** 1937)

Greene, James Alexander, M.D. Baylor Univ. College of Medicine, 1200 M. D. Anderson Blvd., Houston, Tex. *Prof. of Medicine Faculty.* (**1,** 1939)

Greengard, Harry, Ph.D., M.D. 1150 No. State St., Chicago 10, Ill. (**1,** 1939)

Greenstein, Jesse P., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Chief Biochemist.* (**2,** 1935)

Greenwald, Isidor, Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City. *Prof. Emeritus, Biological Chemistry.* (**2R,** 1912; **5R,** 1933)

Greenwood, Delbert A., Ph.D. Utah State Agricultural College, Box 163, Logan. *Prof. of Biochemistry.* (**3,** 1950)

Greep, Roy O., Ph.D. Harvard School of Dental Medicine, 25 Shattuck St., Boston 15, Mass. *Dean and Prof. of Anatomy.* (**1,** 1940)

Greer, C. M., M.S. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Instr. in Chemistry.* (**3,** 1938)

Gregersen, Magnus I., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1,** 1933)

Gregg, Donald Eaton, Ph.D., M.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Dept. of Cardiorespiratory Diseases.* (**1,** 1933)

Gregory, John Delafield, Ph.D. Massachusetts Gen. Hosp., Biochemical Research Lab., Boston 14. *Assoc. Biochemist.* (**2,** 1954)

Gregory, John E., Rowan Memorial Hosp., Salisbury, N. C. *Pathologist.* (**6,** 1948)

Gregory, Raymond L., Ph.D., M.D. Univ. of Texas School of Medicine, 816 Strand, Galveston. *Prof. of Medicine.* (**1,** 1945)

Greig, Margaret E., Ph.D. Upjohn Co., Research Div., Kalamazoo 99, Mich. *Sr. Research Scientist.* (**3,** 1946)

Greiner, Theodore H., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Asst. Prof. of Clin. Pharmacology.* (**3,** 1951)

Greisheimer, Esther M., Ph.D. M.D. Temple Univ. Med. School, 3400 N. Broad St., Philadelphia, Pa. *Prof. of Physiology.* (**1,** 1925)

Grenell, Robert G., Ph.D. Univ. of Maryland, School of Medicine, Psychiatric Inst., Baltimore 1. *Assoc. Prof. Psychiatric Research.* (**1,** 1945)

Griffin, A. Clark, Ph.D. Univ. of Texas, M. D. Anderson Hosp., Dept. of Biochemistry, Houston. *Dept. Head.* (**2,** 1950)

Griffin, Angus, Ph.D. George Washington Univ. School of Medicine, 1335 H St., N. W., Washington 5, D. C. *Prof. of Bacteriology.* (**6,** 1940)

Griffin, Donald R., Ph.D. Harvard Univ., Dept. of Biology, Cambridge 38, Mass. *Professor.* (**1,** 1951)

Griffith, Fred R., Jr., Ph.D. Univ. of Buffalo Med. School, 3435 Main St., Buffalo, N. Y. *Prof. and Head, Dept. of Physiology.* (**1,** 1923; **5,** 1933)

Griffith, Wendell H., Ph.D. Univ. of California Med. Center, School of Medicine, Dept. of Physiological Chemistry, Los Angeles 24. *Chairman of Dept.* (**2,** 1923; **5,** 1934)

Griffitts, James J., M.D. Dade Reagents, Inc., 1851 Delaware Pkwy., Miami, Fla. *President.* (**6,** 1952)

Grimson, Keith S., M.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Surgery.* (**1,** 1943; **3,** 1949)

Grindlay, John H., M.D. Mayo Clinic, Rochester, Minn. (**1,** 1945)

Grisolia, Santiago, M.D. Univ. of Kansas Med. Center, Dept. of Medicine, Kansas City 3. *Assoc. Prof. of Medicine and Biochemistry; Established Investigator, Am. Heart Assn.* (**2,** 1952)

Groat, Richard A., Ph.D., M.D. Mayo Clinic, 102 Second Ave., S.W., Rochester, Minn. *Assoc. Prof. of Anatomy, Mayo Fndn.; Consultant in Anatomy, Mayo Clinic.* (**1,** 1945)

Grob, David, M.D. Johns Hopkins Hospital, Dept. of Medicine, Baltimore 5, Md. *Assoc. Prof. of Medicine, Johns Hopkins Univ. School of Medicine.* (**1,** 1951)

Grodins, Fred S., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. of Physiology.* (**1,** 1945)

Grollman, Arthur, M.D., Ph.D. Univ. of Texas, Dallas 19, Tex. *Prof. of Exper. Medicine.* (**1,** 1928; **3,** 1933)

Groschke, Albert C., Ph.D. The Borden Co., 350 Madison Avenue, New York City. *Technical Dir., Feed Supplements Dept.* (**5,** 1952)

Gross, Erwin G., Ph.D., M.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. of Pharmacology.* (**1,** 1927; **2,** 1923; **3,** 1927)

Gross, J., M.D., C.M., Ph.D. State Univ. of New York Med. Center at New York, College of Medicine, 350 Henry St., Brooklyn 2. (**1,** 1950)

Gross, Jerome, M.D. Massachusetts Gen. Hosp., Dept. of Medicine, Boston, Mass. *Assoc. Biologist; Assoc. in Medicine, Harvard Med. School.* (**1,** 1955)

Gross, Paul, M.D. Mellon Inst., Industrial Hygiene Fndn., Pittsburgh 13, Pa. *Research Pathologist.* (**4,** 1955)

Gross, Robert E., M.D. Children's Hosp., 300 Longwood Ave., Boston 15, Mass. *Surgeon-in-Chief; Ladd Prof. of Children's Surgery, Harvard Med. School.* (**4,** 1940)

Grossman, Morton Irvin, Ph.D., M.D. VA Ctr., Los Angeles 25, Calif. *Chief, Section on Gastroenterology.* (**1,** 1946)

Groupe, Vincent, Ph.D. Inst. of Microbiology, Rutgers Univ., New Brunswick, N. J. *Member; Prof. of Microbiology.* (**6,** 1946)

Grubbs, Robert C., M.D. Ohio State Univ., Columbus. *Assoc. Prof. of Physiology.* (**1,** 1950)

Gruber, Charles M., M.D., Ph.D. College of Med. Evangelists, Dept. of Pharmacology, Loma Linda, Calif. *Prof. and Head of Dept.* (**1R,** 1914; **3,** 1919)

Gruber, Charles M., Jr., M.D., D.Sc. Lilly Lab. for Clin. Research, Indianapolis Gen. Hosp., Indianapolis 7, Ind. (**3,** 1948)

Gruhzit, Carl C., M.D., Ph.D. Univ. of Pennsylvania Grad. School of Medicine, Dept. of Physiology and Pharmacology, Philadelphia 4. *Associate.* (**3,** 1954)

Gruhzit, Oswald M., M.D. 580 Hampton Rd., Grosse Pointe 36, Mich. *Research in Pathology and Pharmacology.* (**4,** 1928)

Grundfest, Harry, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Neurology.* (**1,** 1932)

Gubler, Clark J., Ph.D. Univ. of Utah College of Medicine, Dept. of Medicine, 175 E. 21st St. South, Salt Lake City. *Asst. Clin. Research Prof.* (**5,** 1951)

Gudernatsch, Fredrick, Ph.D., Sc.D. Cornell Univ. Med. College, Arctic Aeromed. Bibliographic Service, New York City 21. (**1,** 1930)

Guerra, Francisco, M.D. Facultad de Medicina, Univ. Nacional de Mexico, Mexico, D. F. *Prof. Titular de Carrera en Farmacologia.* (**3,** 1947)

Guerrant, N. B., Ph.D. Pennsylvania State Univ., University Park. *Prof. of Biochemistry.* (**2,** 1934; **5,** 1933)

Guest, George Martin, M.D. Children's Hospital, Cincinnati 29, Ohio. *Prof. of Research Pediatrics Univ. of Cincinnati College of Medicine and Grad. School.* (**2,** 1933)

Guest, Maurice Mason, Ph.D. Univ. of Texas, Med. Branch, Dept. of Physiology, Galveston. *Prof. and Chairman of Dept.* (**1,** 1946)

Guillemin, Victor, Jr., Ph.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. of Biophysics.* (**1,** 1952)

Gulick, Addison, Ph.D. 3 Concord Ave., Suite 62, Cambridge 38, Mass. (**1R,** 1915; **5R,** 1933)

Gunn, Francis D., M.D., Ph.D. Univ. of Utah College of Medicine, Salt Lake City. *Clin. Prof. of Pathology.* (**4,** 1938)

Gunsalus, Irwin C., Ph.D. Univ. of Illinois, 362 Noyes Lab., Urbana. *Prof. of Bacteriology.* (**2,** 1946)

Gurd, Frank Ross, Ph.D. Cornell Univ. Med. College, New York City 21. *Asst. Prof. of Clin. Biochemistry; Asst. Dir., Bur. of Med. Research, Equitable Life Assurance Soc.* (**2,** 1952)

Gurin, Samuel, Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. and Chairman, Dept. of Biochemistry.* (**2,** 1938)

Gustus, Edwin L., Ph.D. Bjorksten Research Labs., 1525 E. 53rd St., Chicago 15, Ill. *Vice President.* (**2,** 1934)

Guthrie, Charles Claude, M.D., Ph.D. 806 Hill Crest Ave., Columbia, Mo. *Prof. Emeritus of Physiology and Pharmacology, Univ. of Pittsburgh.* (**1R,** 1905; **3R,** 1909)

Gutman, Alexander B., M.D. Mt. Sinai Hospital, Fifth Ave. and 100th St., New York City 29. *Dir.; Prof. of Medicine, Columbia Univ.* (**2,** 1947)

Gutmann, Helmut R., M.D. Veterans Admin. Hospital, Radioisotope Unit, Minneapolis 17, Minn. *Biochemist; Asst. Prof., Dept. of Physiological Chemistry, Univ. of Minnesota Med. School.* (**2,** 1952)

Guttman, Rita M., Ph.D. Brooklyn College, Brooklyn, N. Y. *Asst. Prof. of Biology.* (**1,** 1946)

Guyton, Arthur C., M.D. Univ. of Mississippi School of Medicine, Dept. of Physiology and Biophysics, Jackson. *Prof. and Chairman of Dept.* (**1,** 1949)

György, Paul, M.D. Univ. of Pennsylvania School of Medicine, 3400 Spruce St. Philadelphia 4. *Prof. of Pediatrics.* (**2,** 1938; **5,** 1939)

Haag, Harvey B., M.D. Med. College of Virginia, Richmond. *Prof. of Pharmacology.* (**3,** 1934)

Haag, J. R., Ph.D. Oregon State College, Agricultural Exper. Station, Corvallis. *Chemist.* (**2,** 1947; **5,** 1941)

Haas, Erwin, Ph.D. Mt. Sinai Hospital, 1800 E. 105th St., Cleveland 6, Ohio. *Sr. Research Chemist.* (**2,** 1946)

Habel, Karl, M.D. Natl. Microbiological Inst., Lab. of Infectious Diseases, NIH, Bethesda 14, Md. *Chief* (**6,** 1952)

Haberman, Sol, Ph.D. Wadley Research Inst. and Blood Ctr., 3600 Gaston Ave., Dallas, Texas. *Asst. Dir. and Prof. of Bacteriology and Immunology.* (**6,** 1944)

Hack, Marvin H., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Biochemist.* (**2,** 1954)

Hackel, Donald B., City Hospital, Cleveland 9, Ohio. *Asst. Prof. of Pathology.* (**1,** 1955; **4,** 1953)

Haddy, Francis J., M.D., Ph.D. VA Research Hosp., 333 E. Huron St., Chicago 11, Ill. *Asst. Prof., Northwestern Univ., Dept. of Physiology.* (**1,** 1954)

Hadidian, Zareh, Ph.D. Tufts Univ. School of Medicine, Boston, Mass. *Assoc. Prof.* (**1,** 1945)

Hafkenschiel, Joseph H., Jr., M.D. Univ. of Pennsylvania School of Medicine, Univ. Hospital, 3600 Spruce St., Philadelphia 4. *Assoc. in Medicine.* (**1,** 1950; **3,** 1952)

Hafkesbring, H. Roberta, Ph.D. Woman's Med. College of Pennsylvania, East Falls, Philadelphia. *Prof. of Physiology.* (**1,** 1931)

Haggard, Howard W., M.D. 52 Hillhouse Ave.

New Haven, Conn. *Dir. of Lab. of Applied Physiology, Yale Univ.* (**1**, 1919; **2**, 1920)

Hahn, Paul F., Ph.D. Meharry Med. College, Nashville, Tenn. *Dir. of Cancer Research Labs.; Prof. of Exper. Oncology.* (**1**, 1946; **4**, 1939)

Haig, Charles, Ph.D. New York Med. College, Dept. of Physiology, Fifth Ave. at 106th St., New York City 29. *Prof. and Dir. of Dept.* (**1**, 1942)

Haimovici, Henry, M.D., 105 E. 90th St., New York City 28. *Assoc. Attending Surgeon, Montefiore Hospital.* (**1**, 1950)

Haines, William J., Ph.D. 2147 Marston Lane, Flossmoor, Ill. *Technical Dir., Armour Labs.* (**2**, 1953)

Haist, Reginald E., M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Physiology.* (**1**, 1943)

Hajek, Norma M., Ph.D. State Univ. of Iowa College of Medicine, Dept. of Physiology, Iowa City. *Assoc. Prof.* (**1**, 1954)

Halberg, Franz, M.D. Univ. of Minnesota Med. School, Dept. of Physiology, Minneapolis 14. *Asst. Prof.; Dir. of Research, Cambridge State School and Hosp.* (**1**, 1955)

Halbert, Seymour P., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Microbiology.* (**6**, 1947)

Haldi, John, Ph.D. Dept. of Physiology, Emory University, Ga. *Professor.* (**1**, 1928)

Hale, William M., M.D. Univ. of Tennessee College of Medicine, Cancer Research Lab., 3 N. Dunlap, Memphis. *Prof. of Bacteriology.* (**4**, 1941; **6**, 1935)

Hale, Worth, M.D. Silver St., Monson, Mass. (**1R**, 1908; **3R**, 1908)

Haley, Thomas J., Ph.D. 12007 Thermo St., Los Angeles 34, Calif. *Chief, Div. of Pharmacology and Toxicology, A. E. Project, Med. School, Univ. of California.* (**3**, 1949)

Hall, Charles E., Ph.D. Univ. of Texas, Med. Branch, Dept. of Physiology, Galveston. *Prof.* (**1**, 1949)

Hall, F. G., Ph.D. Duke Univ. School of Medicine, Dept. of Physiology and Pharmacology, Durham, N. C. *Prof. of Physiology and Chairman of Dept.* (**1**, 1937)

Hall, John W., M.D. New York Univ.-Bellevue Med. Ctr., New York City 16. *Prof. of Pathology.* (**4**, 1955)

Hall, Victor E., M.D. 506 Hanley Pl., Los Angeles 49, Calif. *Prof. of Physiology, Univ. of California School of Medicine.* (**1**, 1934)

Hall, W. Knowlton, Ph.D. Med. College of Georgia, 1465 Gwinnett St., Augusta. *Assoc. Prof. of Biochemistry.* (**2**, 1948)

Hallenbeck, George Aaron, Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Asst. Prof. of Physiology and Surgery.* (**1**, 1946)

Halpert, Béla, M.D. Veterans Admin. Hospital, 2002 Holcombe Blvd., Houston 31, Texas. *Chief, Lab. Service; Prof. of Pathology, Baylor Univ. College of Medicine.* (**4**, 1936)

Halstead, Ward C., Ph.D., Univ. of Chicago, Dept. of Medicine, Sec. of Med. Psychology, Chicago, Ill. *Prof. of Exper. Psychology; Dir. of Med. Psychology.* (**1**, 1942)

Ham, Arthur W., M.B. Univ. of Toronto, Toronto 5, Ontario, Canada. *Prof. of Anatomy in charge of Histology.* (**4**, 1939)

Hambourger, Walter E., Ph.D., M.D. G. D. Searle and Co., P.O. Box 5110, Chicago 80, Ill. *Chief Pharmacologist.* (**3**, 1934)

Hamilton, Bengt L. K., M.D. 8311 Drexel Ave., Chicago 19, Ill. *Med. Dir., PHS.* (**2**, 1925)

Hamilton, Clara E., Ph.D. Univ. of Georgia, Dept. of Zoology, Athens. *Assoc. Prof.* (**1**, 1952)

Hamilton, James B., Ph.D. State Univ. of New York, College of Medicine at New York City, Dept. of Anatomy, 350 Henry St., Brooklyn 1, N. Y. *Prof. of Anatomy.* (**1**, 1938)

Hamilton, Paul B., M.D., Ph.D. Alfred I. duPont Inst., Nemours Foundation, Rockland Rd., Wilmington 99, Del. *Chief of Biochemistry.* (**2**, 1946)

Hamilton, Tom R., M.D. Kansas Univ. Med. Center, Kansas City 3. *Prof. of Microbiology and Pathology; Chairman of Med. Microbiology.* (**4**, 1950)

Hamilton, Tom S., Ph.D. Univ. of Illinois, 107 Animal Sciences Lab., Urbana. *Prof. and Head, Div. of Animal Nutrition; Assoc. Dir., Ill. Agricultural Exper. Sta.* (**2**, 1937; **5**, 1938)

Hamilton, W. F., Ph.D. Med. College of Georgia, Augusta. *Prof. of Physiology.* (**1**, 1924)

Hammon, William McD., M.D., D.P.H. Univ. of Pittsburgh, Pittsburgh, Pa. *Prof. of Epidemiology; Head, Dept. of Epidemiology and Microbiology, Grad. School of Public Health.* (**4**, 1944; **6**, 1496)

Hammond, Carolyn W., Ph.D. Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Research Assoc.* (**4**, 1954)

Hampel, C. W., Ph.D. New York Univ.-Bellevue Medical Center, 550 First Ave., New York City 16. *Assoc. Prof. of Physiology.* (**1**, 1936)

Hampton, John K., Jr., Ph.D. Tulane Univ. School of Medicine, Dept. of Physiology, Station 20, New Orleans, La. *Asst. Prof.* (**1**, 1954)

Hamre, Dorothy, Ph.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Research Assoc.* (**6**, 1948)

Hanahan, Donald J., Ph.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Assoc. Prof.* (**2**, 1952)

Hand, David B., Ph.D. New York State Agricultural Exper. Station, Geneva (Cornell Univ.). *Head, Dept. of Food Science and Technology and Prof. of Biochemistry.* (**2,** 1947)

Handford, Stanley Wing, Ph.D. Naval Med. Research Unit No. 3, Cairo, Egypt. *Head, Dept. of Physiology.* (**1,** 1954)

Handler, Philip, Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Biochemistry and Nutrition.* (**2,** 1944; **5,** 1946)

Handley, Carroll A., Ph.D. Baylor Univ. College of Medicine, 1200 M.D. Anderson Blvd., Houston 25, Tex. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1942)

Hanes, Charles S., Ph.D. Univ. of Toronto, Toronto, Canada. *Prof. of Biochemistry.* (**2,** 1954)

Haney, Hance F., Ph.D., M.D. Univ. of Oregon Med. School, Portland. *Prof. of Medicine.* (**1,** 1939)

Hanger, Franklin, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Medicine.* (**6,** 1930)

Hanke, Martin E., Ph.D. Univ. of Chicago, 947 E. 58th St., Chicago, Ill. *Assoc. Prof. of Biochemistry. On leave to U. S. N. M. R. Unit, Cairo, Egypt.* (**2,** 1925)

Hanke, Milton Theo. Ph.D. 7550 S. Green St., Chicago, Ill. *Research Consultant, Biochemistry and Nutrition.* (**2,** 1919)

Hankes, Lawrence V., Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Biochemist; Head of Clin. Chemistry.* (**2,** 1955)

Hanks, John H., Ph.D. Harvard Univ. Med. School, Boston, Mass. *Dept. of Bacteriology; Bacteriologist of the Leonard Wood Memorial.* (**6,** 1935)

Hanna, Calvin, Ph.D. Univ. of Vermont School of Medicine, Dept. of Pharmacology, Burlington. *Asst. Prof.* (**3,** 1955)

Hansard, Samuel L., Ph.D. Univ. of Tennessee-Atomic Energy Commission Agric. Research Program, Oak Ridge. *Sr. Scientist, Animal Nutrition and Metabolism.* (**5,** 1955)

Hansen, Arild E., M.D. Univ. of Texas Med. School, Galveston. *Prof. and Chairman of Dept. of Pediatrics; Dir. of Univ. of Texas Child Health Program.* (**4,** 1941; **5,** 1942)

Hansen, Eder Lindsay, Ph.D. 561 Santa Barbara Rd., Berkeley 7, Calif. *Research Assoc.* (**3,** 1951)

Hansen, Roger G., Ph.D. Univ. of Illinois, Dairy Science Dept., Urbana. *Prof.* (**2,** 1952)

Hardenbergh, Esther, Sc.D. Natl. Naval Med. Center, Naval Med. Research Inst., Div. of Physiology, Bethesda 14, Md. *Head, Surgery Branch.* (**1,** 1951)

Hardy, James D., M.D. Univ. of Mississippi Med. Ctr., Jackson. *Prof. and Chairman, Dept. of Surgery; Surgeon-in-Chief, Univ. Hosp.* (**1,** 1951)

Hardy, James Daniel, Ph.D. Naval Air Development Center, Aviation Med. Lab., Johnsville, Pa. *Dir. of Research; Prof. of Physiology, Univ. of Pennsylvania.* (**1,** 1939)

Hardy, Mary, D.Sc. The Chapin School, 100 East End Ave., New York City. *Teacher of Science.* (**1,** 1933)

Hare, Kendrick, Ph.D. Med. College of Alabama, Birmingham. *Prof. of Pediatrics and Pharmacology.* (**1,** 1938)

Harford, Carl G., M.D. Washington Univ. School of Medicine, Dept. of Internal Medicine, Div. of Infectious Diseases, St. Louis, Mo. *Assoc. Prof. of Medicine.* (**6,** 1948)

Harger, R. N., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Prof. of Biochemistry and Toxicology; Chairman, Dept. of Biochemistry and Pharmacology.* (**2,** 1938; **3,** 1949)

Harkins, Henry N., Ph.D., M.D. Univ. of Washington School of Medicine, Seattle 5. *Prof. and Exec. Officer of Dept. of Surgery.* (**1,** 1942)

Harman, John W., M.D. St. Kevins Hosps., Dublin, Ireland. *Dir. of Labs., Dept. of Pathology* (**4,** 1951).

Harmon, Paul M., Ph.D. Indiana Univ., Bloomington. *Prof. and Chairman, Dept. of Physiology.* (**1,** 1930)

Harne, O. G. 215 Southway, Baltimore 18, Md. (**1R,** 1935)

Harned, Ben King, Ph.D. Mead Johnson & Co., Research Lab., Evansville 21, Ind. *Vice Pres. for Research.* (**2,** 1931; **3,** 1941)

Harper, Alfred E., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Project Associate.* (**5,** 1955)

Harper, Harold A., Ph.D. Univ. of California Med. Ctr., San Francisco 22. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1955)

Harris, Albert H., M.D. N. Y. State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany 1. *Asst. Dir. for Local Labs.* (**6,** 1937)

Harris, Albert Sidney, Ph.D. Louisiana State Univ. School of Medicine, Dept. of Physiology, New Orleans 12. *Prof. and Chairman of Dept.* (**1,** 1939)

Harris, Lorin E., Ph.D. Utah State Agricultural College, Logan. *Chairman, Inst. of Nutrition; Prof. of Animal Husbandry.* (**5,** 1953)

Harris, Milton, Ph.D. Harris Research Labs., 1246 Taylor St., N.W., Washington 11, D. C. *President.* (**2,** 1939)

Harris, Paul N., M.D. Eli Lilly and Company, Indianapolis, Ind. *Head of Pathology Dept., Div. of Pharmacology.* (**3,** 1948; **4,** 1955)

Harris, Philip L., Ph.D. Distillation Products Ind., 755 Ridge Rd. W., Rochester 3, N. Y. *Head of Biochemistry Research Dept.; Assoc. in Physiology, Univ. of Rochester School of Medicine and Dentistry.* (**2,** 1946; **5,** 1945)

Harris, Robert S., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Prof. of Biochemistry of Nutrition.* (**5,** 1941)

Harris, S. C., Ph.D. Northwestern Univ. Dental School, 311 E. Chicago Ave., Chicago 11, Ill. *Prof.; Chairman of Physiology and Pharmacology.* (**1,** 1947; **3,** 1952)

Harris, T. N., M.D. Children's Hospital of Philadelphia, Philadelphia, Pa. *Prof. of Immunology in Pediatrics, Univ. of Pennsylvania.* (**6,** 1946)

Harris, William H., M.D. Tulane Univ. School of Medicine, New Orleans, La. *Assoc. Prof. of Pathology.* (**4,** 1925)

Harrison, Frank, Ph.D. Southwestern Med. School, Dallas 19, Texas. *Prof. of Anatomy.* (**1,** 1941)

Harrison, James A., Ph.D. Temple Univ., Philadelphia 22, Pa. *Prof. of Biology.* (**6,** 1946)

Harrison, R. Wendell, M.D., Ph.D. 5541 Dorchester Ave., Chicago 37, Ill. *Prof. of Bacteriology; Dean of Faculties and Vice Pres., Univ. of Chicago.* (**6,** 1934)

Harrison, Ross Granville, M.D., Ph.D. Osborn Zoological Lab., New Haven, Conn. *Sterling Prof. Emeritus of Biology, Yale Univ.* (**1,** 1906)

Harrow, Benjamin, Ph.D. College of the City of New York, Convent Ave. and 139th St., New York City. *Prof. of Chemistry.* (**2,** 1927)

Hart, E. Ross, Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Neurology Branch.* (**3,** 1944)

Hart, J. Sanford, Ph.D. Natl. Research Labs., Biology Div., Ottawa 2, Canada. *Assoc. Research Officer.* (**1,** 1955)

Hart, William M., Ph.D., M.D. Inst. of Neurological Diseases and Blindness, Bethesda 14, Md. *Chief, Ophthalmology Clin. Center.* (**1,** 1945)

Harte, Robert A., B.S. Sharpe & Dohme, Div. of Merck and Co., Research Labs., West Point, Pa. *Research Admin.* (**5,** 1953)

Hartline, H. K., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**1,** 1929)

Hartman, Arthur M., B.S. U. S. Dept. of Agriculture, Bureau of Dairy Industry, Div. of Nutrition and Physiology, Beltsville, Md. *Biochemist.* (**5,** 1952)

Hartman, Carl G., Ph.D. Ortho Research Foundation, Raritan, N. J. *Assoc. Dir. of Physiology.* (**1,** 1921)

Hartman, F. W., M.D. Henry Ford Hospital, Detroit, Mich. *Pathologist-in-Chief.* (**4,** 1927)

Hartman, Frank Alexander, Ph.D. Ohio State Univ., Dept. of Physiology, Columbus. *Research Prof. Emeritus.* (**1R,** 1916)

Hartmann, Alexis F., M.D. 500 S. Kingshighway, St. Louis, Mo. *Prof. of Pediatrics, Washington Univ. School of Medicine.* (**2,** 1932)

Hartroft, Walter Stanley, M.D., Ph.D. Washington Univ. Med. School, Dept. of Pathology, St. Louis 10, Mo. *Chairman of Dept.* (**4,** 1950)

Harvey, A. McGehee, M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Physician-in-Chief; Prof. of Medicine, Johns Hopkins Univ. Med. School.* (**1,** 1946; **3,** 1946)

Harvey, E. Newton, Ph.D., D. Sc. Princeton Univ., Guyot Hall, Princeton, N. J. *Henry Fairfield Osborn Prof. of Biology.* (**1,** 1914; **2R,** 1916)

Harvey, Stewart C., Ph.D. Univ. of Utah College of Medicine, Dept. of Pharmacology, Salt Lake City 1. *Assoc. Prof.* (**3,** 1951)

Hass, George, M.D. Presbyterian Hospital of Chicago, Chicago, Ill. *Prof. of Pathology, Univ. of Illinois College of Medicine; Chairman, Rush Dept. of Pathology, Presbyterian Hospital.* (**4,** 1939)

Hassett, Charles C., Ph.D. Chemical Corps Med. Labs., Army Chemical Center, Md. *Physiologist.* (**1,** 1954)

Hassid, William Z., Ph.D., Univ. of California, 337 Biochemistry-Virus Lab., Berkeley 4. *Prof. of Plant Biochemistry.* (**2,** 1946)

Hastings, A. Baird, Ph D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Hamilton Kuhn Prof. of Biological Chemistry.* (**1,** 1927; **2,** 1921; **5,** 1940)

Hathaway, Milicent L., Ph.D. Agricultural Research Service, Human Nutrition Research Branch, USDA, Washington 25, D. C. *Nutrition Specialist.* (**5,** 1945).

Hauck, Hazel M., Ph.D. Cornell Univ. College of Home Economics, Ithaca, N. Y. *Prof. of Food and Nutrition.* (**5,** 1941)

Haugaard, Niels, Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Asst. Prof. of Pharmacology.* (**2,** 1953)

Hauge, Sigfred M., Ph.D. Purdue Univ., Dept. of Biochemistry, Lafayette, Ind. *Assoc. Prof.* (**2,** 1954; **5,** 1933)

Haurowitz, Felix, M.D., D.Sc. Indiana Univ., Bloomington. *Prof. of Chemistry.* (**2,** 1949; **6,** 1948)

Haury, Victor G., M.D. Box 206, Wellsville, Kansas. *Private Practice in Medicine.* (**3,** 1939)

Haven, Frances L., Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Assoc. in Biochemistry.* (**2,** 1941)

Hawk, Philip B., Ph.D. 750 W. 50th St., Miami Beach, Fla. *President, Food Research Labs.* (**1,** 1903; **2,** 1906)

Hawkins, J. E., Jr., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head, Dept. of Neurophysiology.* (**1,** 1943)

Hawkins, W. W., Ph.D. Maritime Regional Lab., Natl. Research Council, Halifax, N. S., Canada. *Asst. Research Officer, Natl. Research Council of Canada.* (**2,** 1953)

Hawkins, William Bruce, M.D. Univ. of Rochester School of Medicine and Dentistry, 260 Critten-

den Blvd., Rochester, N. Y. *Assoc. Prof. of Pathology.* (**4,** 1933)

Hawley, Estelle E., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. in Pediatrics and Nutrition.* (**5,** 1935)

Hawn, Clinton van Zandt, M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. *Pathologist-in-Chief; Assoc. Prof. of Pathology, Columbia Univ.* (**4,** 1948)

Hawthorne, Edward W., M.D., Ph.D. Howard Univ. College of Medicine, Dept. of Physiology, Washington 1, D. C. *Assoc. Prof. and Head of Dept.* (**1,** 1955)

Hay, Eleanor Clarke, Ph.D. 7 Greenhill Rd., Madison, N. J. (**1,** 1945)

Hayaishi, Osamu, M.D. Natl. Inst. of Arthritis and Metabolic Diseases, Lab. of Pharmacology and Toxicology, NIH, Bethesda 14, Md. *Chief, Toxicology Sec.* (**2,** 1952)

Hayano, Mika, Ph.D. Worcester Foundation for Exper. Biology, Shrewsbury, Mass. *Research Biochemist.* (**2,** 1952)

Hayashi, Teru, Ph.D. Columbia Univ., 1324 Pupin Hall, New York City 27. *Assoc. Prof. of Zoology.* (**1,** 1951)

Hayes, Sheldon P., Ph.D. Weber College, Dept. of Bacteriology, 3800 Harrison Ave., Ogden, Utah. *Head of Dept.* (**6,** 1953)

Hayman, J. M., Jr., M.D. Tufts College Med. School, 136 Harrison Ave., Boston, Mass. *Dean and Prof. of Medicine.* (**1,** 1928; **3,** 1932)

Haynes, Florence W., Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Research Assoc. in Medicine.* (**1,** 1937)

Hays, Edwin Everett, Ph.D. 28 French Rd., Pittsford, N. Y. (**2,** 1946)

Hays, Harry W., Ph.D. Wayne Univ. College of Medicine, 1401 Rivard St., Detroit 7, Mich. *Assoc. Prof. of Pharmacology.* (**3,** 1949)

Haywood, Charlotte, Ph.D. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (**1,** 1939)

Hazen, Elizabeth L., Ph.D. New York State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany 1. *Assoc. Bacteriologist (mycology).* (**6,** 1931)

Hazleton, Lloyd W., Ph.D. Box 333, Falls Church, Va. *Pres., Hazelton Labs.* (**3,** 1944)

Heagy, Fred Clark, M.D., Ph.D. Univ. of Western Ontario, Dept. of Biochemistry, Faculty of Medicine, London, Canada. *Asst. Prof.* (**2,** 1954)

Hearon, John Z., Ph.D. Oak Ridge Natl. Lab., Mathematics Panel, Oak Ridge, Tenn. *Sr. Mathematician.* (**1,** 1951)

Hecht, Hans H., M.D. Salt Lake General Hosp., Salt Lake City, Utah. *Assoc. Prof. of Medicine, Univ. of Utah College of Medicine.* (**1,** 1952)

Hechter, Oscar M., Ph.D. Worcester Foundation for Exper. Biology, 222 Maple Ave., Shrewsbury, Mass. *Member.* (**1,** 1945)

Hegnauer, Albert H., Ph.D. Boston Univ. School of Medicine, Boston, Mass. *Assoc. Prof. of Physiology.* (**1,** 1937)

Hegsted, David Mark, Ph.D. Harvard School of Public Health, Boston, Mass. *Prof. of Nutrition.* (**5,** 1944)

Heidelberger, Charles, Ph.D. Univ. of Wisconsin, McArdle Memorial Lab., Madison 6. *Assoc. Prof. of Oncology.* (**2R,** 1950)

Heidelberger, Michael, Ph.D. Rutgers Univ., Inst. of Microbiology, New Brunswick, N. J. *Visiting Prof. of Immunochemistry.* (**2R,** 1927; **6,** 1935)

Heilbrunn, Lewis Victor, Ph.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Zoology.* (**1,** 1930)

Heim, J. William, Ph.D. 1919 Hilton Dr., Dayton 9, Ohio. *Chief, Physiology Branch Aero-Med. Lab., Wright-Patterson AFB.* (**1,** 1936)

Heinbecker, Peter, M.D. Washington Univ. Med. School, St. Louis, Mo. *Prof. of Clin. Surgery.* (**1,** 1930)

Heinle, Robert W., M.D. The Upjohn Co., Research Div., Kalamazoo, Mich. *Asst. Dir. of Research.* (**5,** 1948)

Heinz, Erich, M.D. Tufts Univ. Med. School, Dept. of Biochemistry and Nutrition, Boston, Mass. *Asst. Prof.* (**2,** 1955)

Helff, O. M., Ph.D. New York Univ., University Heights, New York City. *Assoc. Prof. of Biology.* (**1,** 1932)

Hellbaum, Arthur A., Ph.D., M.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Pharmacology.* (**1,** 1937; **3,** 1945)

Hellebrandt, Frances Anna, M.D. 1905 Gulf Ave., Box 1202, Pass-A-Grille, Fla. (**1R,** 1933)

Heller, Carl G., M.D., Ph.D. Univ. of Oregon Med. School, Portland 1. *Assoc. Clinical Prof. of Medicine; Head, Endocrinology Div.* (**1,** 1945)

Heller, John H., M.D. New England Inst. for Med. Research, Ridgefield, Conn. *Executive Director.* (**1,** 1955)

Heller, Victor G., Ph.D. Oklahoma A and M College, Dept. of Agricultural Chemistry Research, Stillwater. *Research Prof.* (**2R,** 1935; **5R,** 1935)

Hellerman, Leslie, Ph.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1935)

Helmer, Oscar Marvin, Ph.D. Lilly Lab. of Clin. Research, Indianapolis General Hospital, Indianapolis 7, Ind. *Head of Dept. of Clin. Biochemistry.* (**2,** 1935)

Heming, Arthur E., Ph.D. Smith, Kline & French Labs., 1530 Spring Garden St., Philadelphia 1, Pa. *Head, Biochemistry Sec.* (**3,** 1954)

Hemingway, Allan, Ph.D. Univ. of California

School of Medicine, Dept. of Physiology, Los Angeles 24. *Professor.* (**1,** 1933)

Henderson, Francis G., M.D. 740 S. Alabama St., Indianapolis 2, Ind. *Pharmacologist, Eli Lilly & Co.* (**3,** 1950)

Henderson, LaVell M., Ph.D. Univ. of Illinois, Urbana. *Asst. Prof. of Chemistry* (**2,** 1949)

Hendley, Charles D., Ph.D. Wallace Labs., New Brunswick, N. J. *Res. Pharmacologist.* (**1,** 1949)

Hendrix, James Paisley, M.D. Duke Hospital, Durham, N. C. *Assoc. Prof. of Medicine and Therapeutics.* (**3,** 1942)

Hendrix, Robert Cowgill, M.D. Univ. of Michigan, Med. School, Dept. of Pathology, Ann Arbor. *Asst. Prof.* (**4,** 1954)

Hendry, Jessie L., M.A. Div. of Labs. and Research, New York State Dept. of Health, New Scotland Ave., Albany. *Assoc. Bacteriologist.* (**6,** 1938)

Henle, Werner, M.D. 1740 Bainbridge St., Philadelphia 46, Pa. *Prof. of Virology, Dept. of Public Health and Preventive Medicine, Univ. of Pennsylvania School of Medicine.* (**6,** 1938)

Henneman, Elwood, M.D., C.M. Harvard Med. School, Boston 15, Mass. *Asst. Prof. of Physiology.* (**1,** 1952)

Hennessy, Albert V., M.D. Univ. of Michigan, Ann Arbor. *Research Assoc., Dept. of Epidemiology, School of Public Health; Instr. in Pediatrics, Med. School.* (**6,** 1955)

Henry, James P., M.D., M.Sc. WCRDB-1, Aero-Med. Lab., Wright-Patterson AFB, Ohio. *Chief, Acceleration Sec.* (**1,** 1947)

Henschel, Austin F., Ph.D. QM Research and Development Ctr., Natick, Mass. *Chief, Environmental Protection Div.; Dir. of Lab.* (**1,** 1944)

Hepburn, Joseph Samuel, Ph.D., M.D. 2045 N. Franklin St., Philadelphia 22, Pa. *Prof. of Chemistry and Research Assoc. in Gastroenterology; Registrar, Hahnemann Med. College and Hospital, (Emeritus).* (**2R,** 1915)

Hepler, Opal E., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Assoc. Prof. of Pathology and Dir. of Labs.* (**4,** 1939)

Heppel, Leon A., Ph.D., M. D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon, PHS.* (**2,** 1949)

Herbst, Robert M., Ph.D. Kedzie Chemical Lab., Michigan State College, East Lansing. *Prof. of Chemistry.* (**2,** 1938)

Herget, Carl M., Ph.D. 34 Oak Grove Dr., Apt. D, Baltimore 20, Md. *Chief, Biophysics Div., Army Chemical Center, Md.* (**1,** 1948)

Hernandez, Thomas, M.D., Ph.D. Louisiana State Univ. School of Medicine, Biochemistry Dept., New Orleans 12. *Assoc. Prof.* (**1,** 1955)

Herrick, C. Judson, Ph.D. 236 Morningside Dr., Grand Rapids 6, Mich. *Prof. Emeritus of Neurology, Univ. of Chicago, Chicago, Ill.* (**1R,** 1907)

Herrick, Julia F., Ph.D. Mayo Foundation, Rochester, Minn. *Assoc. Prof. of Exper. Medicine.* (**1,** 1933)

Herrin, Raymond C., Ph.D., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Physiology.* (**1,** 1932)

Herrington, Lovic P., Ph.D. 290 Congress Ave., New Haven, Conn. *Assoc. Dir., John B. Pierce Lab. of Hygiene; Research Assoc. Prof., Dept. of Public Health, Yale Med. School.* (**1,** 1942)

Herriott, Roger M., Ph.D. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Prof. and Head of Dept. of Biochemistry* (**2,** 1940)

Herrmann, George R., Ph.D., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Medicine; Dir. of Cardiovascular Research.* (**4R,** 1925)

Herrmann, Julian B., Ph.B., M.D. 1185 Park Ave., New York City. (**3,** 1941)

Herrmann, Louis George, M.D. Cincinnati General Hospital, Cincinnati 29, Ohio. *Attending Surgeon; Assoc. Prof. of Surgery, Univ. of Cincinnati College of Medicine.* (**4,** 1933)

Herrmann, Roy G., Ph.D. Lilly Research Labs., Eli Lilly & Company, Indianapolis 6, Ind. *Pharmacologist.* (**3,** 1954)

Hershey, Solomon G., M.D. New York Univ., Postgraduate Med. School, 235 East 22nd St., New York City 10. *Clin. Prof. of Anesthesiology.* (**3,** 1952)

Hertz, Roy, Ph.D., M.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Chief, Endocrinology Br.* (**1,** 1945)

Hertzman, Alrick B., Ph.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Prof. of Physiology and Dir. of Dept.* (**1,** 1925)

Herwick, Robert P., Ph.D., M.D. 1212 Westview Rd., Glenview, Ill. *Med. Dir., Baxter Labs., Morton Grove, Ill.* (**3,** 1938)

Hess, Charles L., M.D. 1233 E. Thomas Rd., Phoenix, Ariz. (**1R,** 1916)

Hess, Walter C., Ph.D. Georgetown Med. School, 39th St. and Reservoir Rd., N.W., Washington 7, D. C. *Prof. of Biological Chemistry.* (**2,** 1935)

Hess, Walter Rudolf, M.D. Univ. of Zurich, Zurich, Switzerland. *Prof. Emeritus of Physiology.* (**1H,** 1950)

Heston, Walter E. Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Head, Gen. Biology Section.* (**4,** 1953)

Hetherington, Albert W., Ph.D. HQ, Air Research and Development Command, P.O. Box 1395, Baltimore 3, Md. (**1,** 1943)

Hewetson, Jean Hawks, Ph.D. Biglerville, Pa. (**5,** 1944)

Hewitt, Earl Albon, Ph.D. Iowa State College, Ames. *Prof. and Head, Dept. of Veterinary Physiology and Pharmacology.* (**1,** 1932)

Hewston, Elizabeth M., M.A. 1121 24th St., N.W., Apt. 300, Washington 7, D. C. *Chemist, Human Nutrition Research Branch, Agricultural Research Service, USDA.* (**5,** 1950)

Heymans, C., M.D. Univ. of Ghent, 3 Albert Baertsoenkaai, Ghent, Belgium. *Prof. of Pharmacology.* (**3,** 1951)

Heyroth, Francis F., M.D., Ph.D. Univ. of Cincinnati, Cincinnati, Ohio. *Assoc. Prof. of Ind. Toxicology and Asst. Dir., Kettering Lab.; Assoc. Prof. of Biological Chemistry, College of Medicine.* (**2,** 1935)

Hiatt, Edwin P., Ph.D., M.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Assoc. Prof. of Physiology.* (**1,** 1942)

Hickam, John B., M.D. Duke Hospital, Durham, N.C. *Assoc. Prof. of Medicine, Duke Univ.* (**1,** 1951)

Hickman, Kenneth C. D., Ph.D. 136 Pelham Rd., Rochester 10, N. Y. *Chemical Consultant.* (**2,** 1944)

Hier, Stanley W., Ph.D. Wilson Labs., 4221 S. Western Ave., Chicago 9, Ill. *Tech. Asst. to General Manager.* (**2,** 1950)

Hiestand, William A., Ph.D. Purdue Univ., Dept. of Biology, Lafayette, Ind. *Prof. of Physiology.* (**1,** 1947)

Higginbotham, A. C., Ph.D. Med. College of South Carolina, Dept. of Anatomy, Charleston 16. *Asst. Prof.* (**1,** 1955)

Higgins, George M., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Exper. Biology, Mayo Foundation.* (**5,** 1948)

Higgins, Harold Leonard, M.D. 322 Franklin St., Newton, Mass. (**1,** 1914; **5R,** 1933)

Highman, Benjamin, M.D. Natl. Insts. of Health, Bethesda, Md. *Med. Dir., Lab. of Pathology and Histochemistry.* (**4,** 1947)

Hightower, Nicholas C., M.D., Ph.D. Scott and White Clinic, Temple, Texas. *Consultant, Int. Medicine.* (**1,** 1952)

Hill, Archibald Vivian, C.H., O.B.E., Sc.D., F.R.S. 16 Bishopswood Rd., London N. 6, England. (**1H,** 1950)

Hill, Fredric William, Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Animal Nutrition and Poultry Husbandry.* (**5,** 1954)

Hill, Robert M., Ph.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver. *Prof. of Biochemistry.* (**2,** 1933)

Hill, Samuel E., Ph.D. 135 Brunswick Rd. Troy, N.Y. *Research Worker, The Behr-Manning Corp.* (**1,** 1934)

Hilleman, Maurice, Ph.D. Army Med. Center, Army Med. Service Grad. School, Dept. of Virus and Rickettsial Diseases, Washington 12, D. C. *Med. Bacteriologist.* (**6,** 1949)

Hiller, Alma, Ph.D. Presbyterian Hospital, 1753 W. Congress St., Chicago 12, Ill. *Assoc., Rush Dept. of Biochemistry.* (**2,** 1929)

Hillier, James, Ph.D. Radio Corp. of America, Princeton, N. J. *Admin. Engineer.* (**1,** 1951)

Hilton, James G., Ph.D. Univ. of Mississippi Med. School, Dept. of Pharmacology, Jackson. *Asst. Prof.* (**3,** 1955)

Himwich, Harold E., M.D. Galesburg State Research Hospital, Galesburg, Ill. *Research Dir.* (**1,** 1925)

Himwich, Williamina A., Ph.D. Galesburg State Research Hospital, Galesburg, Ill. *Biochemist.* (**1,** 1947)

Hine, Charles H., Ph.D., M.D. Univ. of California Med. School, Div. of Pharmacology, Med. Center, San Francisco 22. *Assoc. Clin. Prof.* (**3,** 1947)

Hines, Harry M., Ph.D. State Univ. of Iowa, College of Medicine, Dept. of Physiology, Iowa City. *Prof. and Head of Dept.* (**1,** 1928)

Hines, Marion, Ph.D. Emory Univ. Dept. of Anatomy, Emory University, Ga. *Prof. of Exper. Anatomy.* (**1,** 1932)

Hinrichs, M. A., Ph.D., M.D. 228 No. La Salle, Chicago, Ill. *Dir., Bureau of Health Services, Chicago Public Schools; Editor, J. School Health.* (**1,** 1928)

Hinsey, Joseph C., Ph.D. New York Hosp.-Cornell Med. Ctr., 525 E. 68th St., New York City 21. *Director.* (**1,** 1929)

Hirs, C. H. W., Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Associate.* (**2,** 1955)

Hirsch, Frederic G., M.D. 4800 Gibson Dr., Albuquerque, N. M. *Chief, Biophysics.* (**1,** 1951)

Hirschmann, Hans, M.D., Ph.D. Lakeside Hospital, Cleveland 6, Ohio. *Assoc. Prof. of Biochemistry, Dept. of Medicine, Western Reserve Univ.* (**2,** 1946)

Hirst, George K., M.D. Public Health Research Inst., Foot of East 15th St., New York City 9. *Chief, Div. of Infectious Diseases.* (**6,** 1951)

Hisaw, Frederick L., Ph.D. Harvard Univ. Biological Labs., Cambridge, Mass. *Prof. of Zoology.* (**1,** 1932)

Hitchcock, David I., Ph.D. Yale Univ., 333 Cedar St., New Haven 11, Conn. *Assoc. Prof. of Physiology.* (**2,** 1930)

Hitchcock, Fred A., Ph.D. Ohio State Univ., Columbus. *Prof. of Physiology.* (**1,** 1927; **5,** 1933)

Hitchcock, Philip, Ph.D., M.D. Med. College of Alabama, Birmingham. *Assoc. Prof. of Anesthesiology and Pharmacology.* (**3,** 1946)

Hitchings, George H., Ph.D. 50 Primrose Ave., Tuckahoe 7, N.Y., *Chief Biochemist, Burroughs-Wellcome Research Labs.* (**2,** 1942)

Hjort, Axel M., M.D., Ph.D. P.O. Box 281, Fern Way, Scarsdale, N. Y. *Private Research Lab. and Practice of Medicine.* (**2,** 1925)

Hoagland, Hudson, Ph.D. 222 Maple Ave., Shrewsbury, Mass. *Exec. Dir., Worcester Foundation for Exper. Biology.* (**1,** 1932)

Hobby, Gladys L., Ph.D. 630 Flushing Ave., Brooklyn 6, N. Y. *Research Bacteriologist in charge of Exptl. Chemotherapy, Chas. Pfizer & Co.* (**6,** 1946)

Hoberman, Henry D., Ph.D., M.D. 1710 Newport Ave., New York City 61. *Assoc. Prof. of Biochemistry, Albert Einstein College of Medicine, Yeshiva Univ.* (**2,** 1949)

Hoch, Hans, Ph.D. 408 Park St., Charlottesville, Va. *Asst. Prof. of Biophysics, Med. College of Virginia, Richmond.* (**2,** 1952)

Hoch-Ligeti, Cornelia, M.D. Univ. of Virginia School of Medicine, Dept. of Pathology, Charlottesville. *Fellow.* (**4,** 1955)

Hock, Raymond J., Ph.D. Arctic Health Research Center, PHS, Box 960, Anchorage, Alaska. *Biologist.* (**1,** 1954)

Hockett, Robert C., Ph.D. Tobacco Industry Research Comm., 350 Fifth Ave., New York City 1. *Assoc. Scientific Dir.* (**2,** 1950)

Hodes, Robert, Ph.D. Tulane Univ. School of Medicine, Dept. of Psychiatry, 398 Broadway, New Orleans 12, La. *Prof. of Exper. Neurology and Neurophysiology.* (**1,** 1941)

Hodge, Harold Carpenter, Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester 20, N. Y. *Prof. of Pharmacology.* (**2,** 1937; **3,** 1948)

Hodgkin, Alan Lloyd, M.A. Physiological Lab., Cambridge, Eng. *Research Prof.* (**1H,** 1952)

Hoefer, Paul F. A., Ph.D., M.D. Neurological Inst. of New York, 710 W. 168th St., New York City 32. *Assoc. Prof. of Neurology.* (**1,** 1945)

Hoelscher, Bernhard, M.D. University Hospitals, Minneapolis, Minn. (**1,** 1955)

Hoff, Ebbe Curtis, Ph.D., M.D. Med. College of Virginia, Richmond 19. *Prof. of Neurological Science.* (**1,** 1933)

Hoff, Hebbel E., Ph.D., M.D. Baylor Univ. College of Medicine, Dept. of Physiology, 1200 M. D. Anderson Blvd., Houston 25, Tex. *B. F. Hambleton Prof. and Chairman of the Dept.* (**1,** 1933)

Hoffbauer, Frederick William. Univ. of Minnesota Hospitals, Dept. of Medicine, Minneapolis 14. *Assoc. Prof. of Medicine.* (**4,** 1952)

Hoffman, Brian F., M.D. State Univ. of New York Med. Center at New York, College of Medicine, 350 Henry St., Brooklyn 1. *Assoc. Prof. of Physiology.* (**1,** 1954)

Hoffman, William Samuel, Ph.D., M.D. Sidney Hillman Health Centre of Chicago, 333 S. Ashland Blvd., Chicago 7, Ill. *Med. Dir.* (**2,** 1935)

Hofmann, Klaus, Ph.D. Univ. of Pittsburgh Med. School, Dept. of Biochemistry, Pittsburgh, Pa. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1947)

Hogan, Albert G., Ph.D. Univ. of Missouri, 105 Schweitzer Hall, Columbia. *Prof. Emeritus of Animal Nutrition.* (**2R,** 1916; **5,** 1933)

Hogben, C. Adrian M., M.D., Ph.D. Natl. Heart Inst., Bethesda 14, Md. *Physiologist.* (**1,** 1953)

Hogeboom, George Hall, M.D. Natl. Cancer Inst., Natl. Inst. of Health, Bethesda 14, Md. *Med. Officer.* (**2,** 1951)

Hogness, Thorfin R., Ph.D. Univ. of Chicago, 6220 S. Drexel Ave., Chicago 37, Ill. *Dir., Chicago Midway Labs.* (**2,** 1941)

Hokin, Lowell E., M.D., Ph.D. McGill Univ., Dept. of Pharmacology, Montreal, Canada. *Asst. Prof.* (**2,** 1954)

Holck, Harald G. O., Ph.D. Univ. of Nebraska, College of Pharmacy, Lincoln. *Prof. of Pharmacology.* (**1R,** 1935; **3,** 1938)

Hollaender, Alexander, Ph.D. Oak Ridge Natl. Lab., Oak Ridge, Tenn. *Dir., Biology Div.* (**1,** 1947)

Holland, William Cannon, M.D. Vanderbilt Univ. Med. School, Dept. of Pharmacology, Nashville, Tenn. *Assoc. Prof.* (**3,** 1951)

Hollander, Franklin, Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City. *Assoc. in Physiology; Head, Gastro-enterology Research Lab.* (**1,** 1942; **2,** 1932)

Hollinshead, W. Henry, Ph.D. Mayo Clinic, Rochester, Minn. *Head of Section on Anatomy, Prof. of Anatomy, Mayo Foundation.* (**1,** 1949)

Holman, Ralph Theodore, Ph.D. Hormel Inst., Austin, Minn. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1948)

Holman, Russell Lowell, M.D. Louisiana State Univ. School of Medicine, New Orleans. *Prof. of Pathology.* (**4,** 1940)

Holmes, Arthur Dunham, Ph.D. Univ. of Massachusetts, Amherst. *Research Prof. of Chemistry.* (**2R,** 1931; **5R,** 1933)

Holmes, Joseph H., M.D., D.Med.Sc. Univ. of Colorado School of Medicine, 4200 E. Ninth Ave., Denver 20. *Prof. of Medicine.* (**1,** 1947)

Holmes, Julia O., Ph.D. 79 Old Town Rd., Amherst, Mass. (**2,** 1942; **5,** 1936)

Holt, Joseph Paynter, M.D., Ph.D. Univ. of Louisville, Inst. for Med. Research, 323 E. Chestnut St., Louisville 2, Ky. *Prof. of Heart Research; Dir. Inst. for Med. Research.* (**1,** 1942)

Holt, L. Emmett, Jr., M.D. 550 First Ave., New York City 16. *Prof. of Pediatrics, New York Univ. College of Medicine.* (**2,** 1930; **5,** 1946)

Holtkamp, Dorsey E., Ph.D. Smith, Kline & French Labs., 1530 Spring Garden St., Philadelphia 1, Pa. *Sr. Research Scientist.* (**3,** 1954)

Hoobler, Icie Macy, Ph.D. 71 E. Ferry Ave., Detroit 2, Mich. *Consultant, Merrill-Palmer School.* (**2,** 1925; **5,** 1933)

Hoobler, Sibley W., M.D. Univ. of Michigan Hospital, Dept. of Medicine, Ann Arbor. *Assoc. Prof. of Internal Medicine.* (**1,** 1949)

Hooker, Davenport, Ph.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Prof. and Chairman of Dept. of Anatomy.* (**1,** 1920)

Hooker, Sanford B., M.D. Bradford, Vt. (**6R,** 1918)

Hoover, Sam R., Ph.D. 7815 Linden Rd., Philadelphia 18, Pa. *Asst. Chief, Eastern Utilization Research Br., Agric. Research Service, USDA.* (**2,** 1946)

Hoppe, James O., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Pharmacologist.* (**3,** 1950)

Hoppert, C. A., Ph.D. Michigan State College, Box 626, East Lansing. *Prof. of Biological Chemistry.* (**5,** 1935)

Hopps, Howard C., M.D. Univ. of Oklahoma School of Medicine, 801N.E. 13th St., Oklahoma City. *Prof. and Chairman of Dept. of Pathology.* (**4,** 1947; **6,** 1946)

Horecker, Bernard L., Ph.D. Natl. Insts. of Health, Natl. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Chief, Section on Enzymes and Cellular Biochemistry.* (**2,** 1947)

Horn, Millard J., Ph.D. 1811 Varnum St., N.E., Washington 18, D.C. *U.S. Dept. of Agriculture, Chemist.* (**2,** 1949)

Horowitz, Norman H., Ph.D. California Inst. of Technology, Pasadena. *Prof. of Biology.* (**2,** 1946)

Horsfall, Frank L., Jr., M.D. C.M. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Vice Pres., Physician-in-Chief.* (**6,** 1937)

Horstmann, Dorothy M., M.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Assoc. Prof. of Preventive Medicine.* (**6,** 1951)

Horton, Richard G., Ph.D. Med. Labs., Army Chemical Center, Md. *Asst. Chief, Field Toxicology Br.* (**1,** 1948)

Horvath, Steven M., Ph.D. State Univ. of Iowa School of Medicine, Dept. of Physiology, Iowa City. *Professor of Physiology; Dir., Gerontological Inst.* (**1,** 1943)

Horwitt, Benjamin N., Ph.D. Mt. Sinai Hosp., Chicago 8, Ill. *Head, Div. of Biochemistry.* (**2,** 1953)

Horwitt, M. K., Ph.D. Elgin State Hosp., Elgin, Ill. *Dir., Biochemical Research Lab.; Assoc. Prof. of Biological Chemistry, Univ. of Illinois College of Medicine.* (**2,** 1941; **5,** 1949)

Horwitz, Orville, M.D. Univ. of Pennsylvania Hosp., Philadelphia 4. *Asst. Prof. of Clin. Medicine.* (**1,** 1955)

Hoskins, R. G., Ph.D., M.D. 86 Varick Rd., Waban 68, Mass. (**1R,** 1911)

Hotchkiss, Rollin D., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**2,** 1941)

Hou, H. C., M.D. Te Erk Chun Med. Univ., 372 Wu Kang Rd., Shanghai, China. *Prof. of Biochemistry and Head of Dept.* (**5,** 1949)

Houck, C. Riley, Ph.D. Univ. of Tennessee Med. School, Memphis 3. *Assoc. Prof. in Physiology.* (**1,** 1947)

Houde, Raymond W., M.D. 444 E. 68th St., New York City 21. *Asst. Prof. of Medicine, Sloan-Kettering Div., Cornell Univ. Med. School.* (**3,** 1953)

Houssay, Bernardo, A., M.D. Viamonte 2790, Buenos Aires, Argentina. *Dir. Inst. Biology and Med. Exper.* (**1H,** 1942)

Hove, Edwin L., Ph.D. Alabama Polytechnic Inst., Lab. of Animal Nutrition, Auburn. *Professor.* (**5,** 1946)

Howard, Evelyn, Ph.D. Johns Hopkins School of Medicine, Baltimore, Md. *Asst. Prof. of Physiology.* (**1,** 1933)

Howard, John Eager, M.D. 1101 St. Paul St., Baltimore 2, Md. *Assoc. Prof. of Medicine, Johns Hopkins Univ.* (**1,** 1946)

Howard, Marion E., M.D. 158 Whitney Ave., New Haven, Conn. *Assoc. Clin. Prof. of Medicine, Yale School of Medicine; Assoc. Physician, New Haven Hospital and New Haven Dispensary.* (**4,** 1939; **6,** 1937)

Howe, Calderon, M.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Asst. Prof. of Microbiology.* (**6,** 1953)

Howe, Eugene E., Ph.D. R. D. 1, Bound Brook, N. J. *Mgr. of Natural Prods. Process Development, Merck and Co., Inc.* (**2,** 1953)

Howe, Howard A., Ph.D. Johns Hopkins Univ., 1901 East Madison St., Baltimore 5, Md. *Adjunct Prof. of Epidemiology.* (**6,** 1949)

Howe, Paul E., Ph.D. 3601 Connecticut Ave., N.W., Washington 8, D. C. *Nutrition Consultant.* (**1R,** 1913; **2R,** 1909; **5R,** 1933)

Howell, Stacey F., Ph.D. Kirksville College of Osteopathy and Surgery, Kirksville, Mo. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1940)

Howland, Joe W., M.D., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester 20, N. Y. *Prof. of Radiation Biology; Chief, Med. Div. Atomic Energy Project, Univ. of Rochester School of Medicine.* (**1,** 1949; **4,** 1951)

Huang, H. T., Ph.D. 1923 B Mather Way, Elkins Park 17, Pa. *Research Chemist, Rohm and Haas Co., Philadelphia.* (**2,** 1953)

Hubbard, Ruth H., Ph.D. Harvard Univ., Biological Labs., 16 Divinity Ave., Cambridge, Mass. *Research Fellow.* (**2,** 1953)

Hubbell, Rebecca B., Ph.D. 49 Livingston St., New Haven 11, Conn. *Edit. Asst., J. Nutrition.* (**2R,** 1937; **5,** 1935)

Hudack, Stephen Sylvester, M.D. St. Luke's Hospital, 11311 Shaker Blvd., Cleveland 4, Ohio. *Dir., Surgical Research.* (**4,** 1953)

Huddleston, Ora L., M.D., Ph.D. California Rehabilitation Ctr., 1815 Ocean Front, Santa Monica, Calif. *Med. Dir.* (**1,** 1936)

Huennekens, Frank M., Ph.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Assoc. Prof.* (**2,** 1952)

Hueper, Wilhelm C., M.D. Natl. Cancer Inst. Bethesda, Md. *Chief, Cancerigenic Studies Section; Chief, Cancerigenic Research Labs.* (**4,** 1940)

Huf, Ernst G., Ph.D., M.D. 1417 Avondale Ave., Richmond, Va. *Assoc. Prof. of Physiology, Med. College of Virginia.* (**1,** 1949)

Huff, Jesse W., Ph.D. Sharp & Dohme, Inc., Div., Merck and Co., Inc., West Point, Pa. *Dir., Research in Physiological Chemistry.* (**2,** 1949)

Huffman. C. F., Ph.D. Michigan State College, East Lansing. *Research Prof. and Prof. in Dairy Husbandry.* (**5,** 1937)

Huffman, Max N., Ph.D. Oklahoma Med. Research Fndn., 825 N. E. 13th St., Oklahoma City 4. *Head, Sec. of Organic Chemistry; Prof. of Research Biochemistry, Univ. of Oklahoma, School of Medicine.* (**2,** 1947)

Huggins, Charles Brenton, M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Surgery.* (**1,** 1932)

Huggins, Russell A., Ph.D. Baylor Univ. College of Medicine, 1200 M. D. Anderson Blvd., Houston 5, Tex. *Prof. of Pharmacology.* (**1,** 1952; **3,** 1949)

Hughes, Hettie B., Ph.D. Christ Hospital, Cincinnati 19, Ohio. *Research Assoc.* (**2,** 1946)

Hughes, Joseph, M.D. 111 N. 49th St., Philadelphia, Pa. *Assoc. Prof. of Exper. Neurology, Grad. School of Medicine, Univ. of Pennsylvania; Prof. of Psychiatry, Woman's Med. College of Pennsylvania.* (**1,** 1936)

Hughes, Josiah Simpson, Ph.D. Kansas State College, Manhattan. *Prof. of Chemistry.* (**2R,** 1931; **5R,** 1939)

Hughes, Thomas P., Ph.D. Dept. Nacional de Salud, Apartado 935, Panama City, R. P. (**6,** 1934)

Hughes, Walter L., Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Head, Div. of Microbiology.* (**2,** 1955)

Hull, Wayland E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Asst. Prof. of Physiology.* (**1,** 1955)

Hulpieu, Harold R., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Prof. of Pharmacology.* (**3,** 1939)

Hummel, John P., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Assoc. Prof.* (**2,** 1952)

Humphries, James C., Ph.D. Univ. of Kentucky, Dept. of Bacteriology, Lexington. *Prof. of Bacteriology.* (**6,** 1950)

Hundley, James M., M.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Chief, Lab. of Biochemistry and Nutrition.* (**5,** 1950)

Hunscher, Helen A., Ph.D. Western Reserve Univ., 2023 Adelbert Rd., Cleveland 6, Ohio. *Head of Dept. of Home Economics.* (**5,** 1934)

Hunt, Carlton C., M.D. Albert Einstein College of Medicine, 1710 Newport Ave., New York City 61. *Prof. of Physiology.* (**1,** 1950)

Hunter, Andrew, C.B.E., M.B. Hospital for Sick Children, Toronto, Ontario, Canada. *Research Assoc.; Prof. Emeritus of Pathological Chemistry, Univ. of Toronto.* (**2R,** 1908)

Hunter, F. R., Ph.D. Institution for TB Research, 1835 W. Harrison St., Chicago 12, Ill. (**1,** 1952)

Hunter, Francis Edmund, Jr., Ph.D. Washington Univ. Med. School, St. Louis 10, Mo. *Assoc Prof. of Pharmacology.* (**2,** 1946; **3,** 1951).

Hunter, Jesse E., Ph.D. Allied Mills, Inc., Research Labs., Box 459, Libertyville, Ill. *Dir. of Research.* (**5,** 1936)

Hunter, John, Ph.D. Defense Research Med. Labs., Box 62, Postal Sta. 'K', Toronto, Ontario, Canada. *Chief, Applied Physiology Section.* (**1,** 1948)

Hutchens, John O., Ph.D. Univ. of Chicago, Dept. of Physiology, Chicago 37, Ill. *Assoc. Prof. and Chairman of Dept. of Physiology.* (**1,** 1947)

Hutcheon, Duncan E, M.D., Ph.D. Pfizer Therapeutic Inst., Maywood, N. J. *Research Pharmacologist.* (**3,** 1954)

Hutchings, Brian L., Ph.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Asst. Dir. of Medicinal Chemical Research.* (**2,** 1949)

Hwang, Kao, M.D., Ph.D. Abbott Labs., N. Chicago, Ill. *Sr. Pharmacologist.* (**3,** 1953)

Hyde, Jane E., Ph.D. Univ. of California at Los Angeles Med. Ctr., Dept. of Physiology, Los Angeles 24. *Jr. Research Physiologist.* (**1,** 1951)

Hyman, Chester, Ph.D. Univ. of Southern California, Dept. of Physiology, Los Angeles 7. *Professor.* (**1,** 1948)

Imig, Charles J., Ph.D. State Univ. of Iowa, Dept. of Physiology, Iowa City. *Research Asst. Prof. of Physiology and Orthopedic Surgery.* (**1,** 1955)

Ingalls, Mabel S., Ph.D. 860 Fifth Ave., New York City 21. *Liaison Officer, World Health Organization, Lake Success.* (**6,** 1940)

Ingle, Dwight J., Ph.D. Univ. of Chicago, The Ben May Lab. for Cancer Research, Chicago, Ill. *Prof. of Physiology.* (**1,** 1939)

Ingraham, Raymond Clifford, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Assoc. Prof. in Physiology.* (**1,** 1938)

Ingram, W. R., Ph.D. State Univ. of Iowa College

of Medicine, Iowa City. *Prof. and Head of Dept. of Anatomy.* (**1,** 1936)

Innes, James R. M., Ph.D., D.Sc. Chemical Corps, Med. Labs., Army Chemical Center, Md. *Chief, Pathology Branch.* (**4,** 1955)

Ipsen, Johannes, Jr., M.D. Massachusetts Dept. of Public Health, 375 South St., Jamaica Plain. *Assoc. Prof. of Public Health; Superintendent, Inst. of Labs.* (**6,** 1953)

Irish, Don D., Ph.D. Dow Chemical Co., Midland, Mich. *Dir., Biochemical Research Lab.* (**3,** 1948)

Irvin, Elinor Moore, Ph.D. Univ. of North Carolina School of Medicine, Dept. of Biochemistry and Nutrition, Chapel Hill. *Guest Investigator.* (**2,** 1951)

Irvin, J. Logan, Ph.D. Univ. of North Carolina, School of Medicine, Chapel Hill. *Assoc. Prof. Biochemistry and Nutrition.* (**2,** 1942)

Irving, George Washington, Jr., Ph.D. USDA, Agricultural Research Service, Washington 25, D. C. *Dept. Admin.* (**2,** 1946)

Irving, Laurence, Ph.D. USPHS, P.O. Box 960, Anchorage, Alaska. *Biologist, Arctic Health Research Ctr.* (**1,** 1927)

Irwin, M. R., Ph.D. Univ. of Wisconsin, Dept. of Genetics, Madison. *Professor.* (**6,** 1936)

Irwin, Samuel, Ph.D. Schering Corp., Dept. of Pharmacology, Bloomfield, N. J. *Research Pharmacologist.* (**3,** 1955)

Isaacs, Raphael, M.D. 104 S. Michigan Ave., Suite 630, Chicago 3, Ill. (**4,** 1928)

Isbell, Harris, M.D. PHS Hospital, Lexington, Ky. *Dir., NIMH Addiction Research Ctr.* (**3,** 1949)

Isenberger, R. M., M.D. Univ. of Kansas School of Medicine, Kansas City. *Prof. of Pharmacology.* (**3,** 1937)

Itano, Harvey A., M.D., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. (**2,** 1953)

Ivy, A. C., Ph.D., M.D. Univ. of Illinois, Chicago Professional Colleges, Chicago, Ill. *Vice-Pres.; Distinguished Prof. of Physiology and Head of Dept. of Clin. Science.* (**1,** 1919; **5,** 1933)

Iwamoto, Harry K., Ph.D. Univ. of Buffalo, Schools of Medicine and Pharmacy, Dept. of Pharmacology, Buffalo 14, N. Y. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Izquierdo, J. Joaquin, M.D. Natl. School of Medicine, Mexico City. *Prof. of Physiology in Natl. School of Medicine.* (**1,** 1928)

Jackson, Dennis Emerson, Ph.D., M.D. 144 Louis Ave., Cincinnati 20, Ohio. *Prof. Emeritus of Pharmacology, Univ. of Cincinnati College of Medicine.* (**1R,** 1910; **3R,** 1912)

Jackson, Dudley P., M.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Instr. in Medicine.* (**1,** 1955)

Jackson, Elizabeth B., A.B. Army Med. Center, Army Med. Service Grad. School, Dept. of Virus and Rickettsial Diseases, Washington 12, D. C. *Bacteriologist.* (**6,** 1949)

Jackson, Eugene L., Ph.D. 1407 Cummings Dr., Richmond, Va. *Med. Dir., A. H. Robins Co.* (**3,** 1942)

Jackson, Richard W., Ph.D. U. S. Dept. of Agriculture, Northern Regional Research Lab., 825 N. University St., Peoria, Ill. *Head of Fermentation Div.* (**2,** 1930; **5,** 1933)

Jackson, Robert L., M.D. Univ. of Missouri, Dept. of Pediatrics, Columbia. *Prof. and Chairman of Dept.* (**5,** 1933)

Jacobs, Merkel Henry, Ph.D. Univ. of Pennsylvania, School of Medicine, Philadelphia. *Emeritus Prof. of General Physiology.* (**1,** 1919)

Jacobs, Walter A., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member Emeritus.* (**2R,** 1908; **3R,** 1913)

Jacobsen, Erik, M.D. Medicinalco Ltd., 37, Prags Blvd., Copenhagen S., Denmark. *Research Dir.* (**3,** 1950)

Jacobson, Edmund, Ph.D., M.D. Lab. for Clin. Physiology, 55 E. Washington St., Chicago, Ill. *Director.* (**1,** 1929)

Jacobson, Leon O., M.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Medicine; Dir. of Argonne Cancer Research Hosp.* (**4,** 1953)

Jaffe, Henry L., M.D. Hospital for Joint Diseases, 1919 Madison Ave., New York City. *Dir. of Labs.* (**4,** 1925)

Jager, Blair Valdemar, M.D. Univ. of Utah, Salt Lake Gen. Hosp., Salt Lake City. *Assoc. Prof. of Medicine.* (**6,** 1954)

Jahn, Theodore Louis, Ph.D. Univ. of California, Los Angeles 24. *Chairman, Dept. of Zoology.* (**1,** 1944)

Jailer, Joseph W., M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, New York City. *Asst. Prof. of Medicine.* (**1,** 1948).

Jamieson, Walter A., Sc.D. Green Braes, R.R. 18, Box 286, Indianapolis 24, Ind. (**6R,** 1927)

Jandorf, Bernard J., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Enzyme Chemistry Branch.* (**2,** 1946)

Janes, Ralph G., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Assoc. Prof. of Anatomy.* (**1,** 1948)

Janowitz, Henry D., M.D. Mt. Sinai Hospital, Gastroenterology Research Lab., 1 E. 100th St., New York City 29. *Asst. Attending Physician for Gastroenterology.* (**1,** 1951)

Jansen, Eugene F., B.A. Western Regional Research Lab., 800 Buchanan St., Albany 6, Calif. *Head, Fruit Processing Div.* (**2,** 1947)

Jaques, L. B., Ph.D. Univ. of Saskatchewan, Saskatoon, Canada. *Prof. and Head of Dept. of Physiology and Pharmacology.* (**1,** 1943; **3,** 1954)

Jaques, William E., M.D. Louisiana State Univ.

School of Medicine, New Orleans. *Assoc. Prof. of Pathology.* (**4,** 1954)

Jarcho, Leonard W., M.D. Veterans Administration Hospital, 12th Ave. and E St., Salt Lake City 3, Utah. *Asst. Prof. of Medicine; Asst. Chief of Med. Ser.* (**1,** 1951)

Jasper, Herbert H., Ph.D., D. és Sc. (Paris), M.D. Montreal Neurological Inst., 3801 University St., Montreal, Quebec, Canada. *Head, Dept. of Neurophysiology; Prof. of Exper. Neurology, McGill Univ.* (**1,** 1940)

Jawetz, Ernest, Ph.D., M.D. Univ. of California Med. Center, 3rd and Parnassus Aves., San Francisco 22. *Prof. of Microbiology; Lecturer in Medicine and Pediatrics.* (**6,** 1950)

Jeanloz, Roger W., D.Sc. Massachusetts Gen. Hosp., Boston 14. *Assoc. Biochemist.* (**2,** 1954)

Jenden, Donald J., B.S. Naval Med. Research Inst., Bethesda 14, Md. *Lt., USN.* (**3,** 1955)

Jenness, Robert, Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, St. Paul 13. *Professor.* (**2,** 1953)

Jennings, Frank Lemont, M.D. Armed Forces Inst. of Pathology, Washington 25, D. C. (**4,** 1954)

Jensen, Elwood V., Ph.D. Univ. of Chicago, Dept. of Biochemistry, and Ben May Lab. for Cancer Research, Chicago, Ill. *Assoc. Prof.* (**2,** 1954)

Jensen, Hans F., Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Head, Biochemistry Dept.* (**2,** 1929)

Jensen, Keith E., Ph.D. Univ. of Michigan School of Public Health, Ann Arbor. *Asst. Prof.* (**6,** 1954)

Jeter, Wayburn S., Ph.D. State Univ. of Iowa, Dept. of Bacteriology, Iowa City. *Asst. Prof.* (**6,** 1955)

Joachimoglu, George, M.D. 3A Lykeiou St., Athens, Greece. *Prof. of Pharmacology.* (**3,** 1951)

Jobling, James W., M.D. Suwanee Hotel, St. Petersburg, Fla. *Prof. Emeritus of Pathology, Columbia Univ.* (**4R,** 1913)

Jochim, Kenneth E., Ph.D. Univ. of Kansas, Dept. of Physiology, Lawrence. *Prof. and Chairman of Dept. of Physiology; Asst. Dean of Med. School.* (**1,** 1942)

Johnson, B. Connor, Ph.D. Univ. of Illinois, Div. of Animal Nutrition, 259 Animal Sciences Lab., Urbana. *Prof. of Animal Nutrition.* (**2,** 1947; **5,** 1947)

Johnson, Frank H., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Assoc. Prof. of Biology.* (**1,** 1942)

Johnson, J. Raymond, Ph.D. Creighton Univ. School of Medicine, Dept. of Physiology and Pharmacology, Omaha 2, Nebr. *Prof. and Dir. of Dept.* (**1,** 1938)

Johnson, John A., Ph.D. Univ. of Minnesota Med. School, Dept. of Physiology, Minneapolis. *Asst. Prof.* (**1,** 1955)

Johnson, Joseph L., Ph.D., M.D. Howard Univ. School of Medicine, Washington, D. C. *Dean, College of Medicine.* (**1,** 1934)

Johnson, Marvin J., Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2,** 1941)

Johnson, Ralph M., Ph.D. Detroit Inst. of Cancer Research, 4811 John R. St., Detroit 1, Mich. *Research Assoc.; Asst. Prof., Physiological Chemistry, Wayne Univ. College of Medicine.* (**2,** 1952)

Johnson, Robert E., M.D., Ph.D. Univ. of Illinois College of Liberal Arts and Sciences, Dept. of Physiology, Urbana. *Head of Dept.* (**1,** 1944; **2,** 1939; **5,** 1946)

Johnson, S. R., Ph.D. M.F.A. Milling Co., Springfield, Mo. *Dir. of Nutrition.* (**5,** 1947)

Johnson, Victor, Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Director.* (**1,** 1933)

Johnson, Walter H., Ph.D. Defence Research Med. Labs., Toronto, Canada. *Defence Scientific Officer.* (**1,** 1955)

Johnston, Charles G., M.D. Wayne Univ. College of Medicine, Detroit 7, Mich. *Chairman, Div. of Surgery.* (**1,** 1933)

Johnston, Frances A., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Food and Nutrition.* (**5,** 1948)

Johnston, Margaret W., Ph.D. P. O. Box 276, Ann Arbor, Mich. (**2,** 1930)

Jolliffe, Norman, M.D. 910 Park Ave., New York City 21. *Dir. Bureau of Nutrition.* (**1,** 1932)

Jones, Hardin B., Ph.D. Univ. of California, Div. of Med. Physics, Berkeley 4. *Prof. of Med. Physics and Physiology; Asst. Dir. of Donner Lab.* (**1,** 1949)

Jones, James H., Ph.D. Univ. of Pennsylvania School of Veterinary Medicine, Philadelphia 4. *Prof. of Physiological Chemistry.* (**2,** 1928; **5,** 1933)

Jones, Kenneth K., Ph.D. Clinical Research Labs., 433 N. Tucson Blvd., Tucson, Ariz. *Director.* (**1R,** 1936)

Jones, L. Meyer, D.V.M., Ph.D. Iowa State College, Ames. *Prof. of Veterinary Physiology and Pharmacology.* (**3,** 1953)

Jones, Mary Ellen, Ph.D. Massachusetts Gen. Hosp., Biochemical Research Lab., Boston 14. *Research Fellow in Biochemistry.* (**2,** 1955)

Jones, Ralph, Jr., M.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Asst. in Medicine.* (**3,** 1950)

Jones, Russell S., Univ. of Utah College of Medicine, Dept. of Pathology, Salt Lake City. (**4,** 1952)

Jordan, William S., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Assoc.*

Prof. of Preventive Medicine; Asst. Prof. of Medicine. (**6,** 1955)

Joseph, Norman R., Ph.D. Fondation des Etats-Unis, Cité Universitaire, 15 Blvd. Jourdan, Paris, France. (**2,** 1947)

Joslin, Elliott P., M.D., 81 Bay State Rd., Boston, Mass. *Dir., George F. Baker Clinic.* (**5R,** 1933)

Jukes, Thomas Hughes, Ph.D. Lederle Labs., Pearl River, N. Y. *Head, Dept. of Nutrition and Physiology Research.* (**2,** 1935; **5,** 1938)

Jung, Frederic Theodore, Ph.D., M.D. American Med. Assoc., Chicago, Ill. *Dir. of Physical Lab.* (**1,** 1930)

Jungck, Edwin C., M.D., Ph.D. 138 Mayer Dr., Savannah, Ga. (**1,** 1952)

Jungeblut, Claus W., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Bacteriology.* (**4,** 1929; **6,** 1926)

Juni, Elliot, Ph.D. Univ. of Illinois Dept. of Bacteriology, 362 Noyes Lab., Urbana. *Asst. Prof.* (**2,** 1954)

Kabat, Elvin A., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Microbiology.* (**2,** 1940; **6,** 1943)

Kabat, Herman, Ph.D., M.D. Maimonides Hosp., 2356 Sutter St., San Francisco 15, Calif. (**1,** 1941)

Kagan, Benjamin M., M.D. Cedars of Lebanon Hosp., Los Angeles 27, Calif. *Dir., Dept. of Pediatrics.* (**5,** 1953)

Kagan, Irving G., Ph.D. Univ. of Pennsylvania, Zoological Lab., Philadelphia 4. *Instructor.* (**6,** 1955)

Kahn, Julius B., Jr., Ph.D. Univ. of Cincinnati College of Medicine, Dept. of Pharmacology, Cincinnati 19, Ohio. *Asst. Prof.* (**3,** 1954)

Kahn, Reuben L., Sc.D., Univ. of Michigan Hospital, Ann Arbor. *Prof. of Serology of Syphilis and Chief of Serology Lab.* (**4,** 1934; **6,** 1919)

Kalckar, Herman M., M.D., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Visiting Scientist.* (**2,** 1942)

Kalnitsky, George, Ph.D. State Univ. of Iowa College of Medicine, Dept. of Biochemistry, Iowa City. *Assoc. Prof.* (**2,** 1948)

Kalow, Werner, M.D. Univ. of Toronto, Dept. of Pharmacology, Toronto 5, Canada. *Asst. Prof. of Pharmacology.* (**3,** 1951)

Kalter, Seymour Sanford, Ph.D. State Univ. of New York Upstate Med. Ctr., Dept. of Microbiology, Syracuse, N. Y. *Dir., Virus Lab.; Assoc. Prof., Dept. of Microbiology.* (**6,** 1950)

Kamen, Martin D., Ph.D. Washington Univ. Med. School, 510 S. Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Chemistry.* (**2,** 1946)

Kamijo, Kazuya, M.D., Ph.D. Showa Med. College, Shinagawa-ku, Tokyo, Japan. *Asst. Prof. in Pharmacology.* (**3,** 1953)

Kamin, Henry, Ph.D. Duke Hospital, Box 3344, Durham, N. C. *Assoc. in Biochemistry, Duke Univ. School of Medicine; Principal Scientist, Radio-Isotope Unit, VA Hospital, Durham.* (**2,** 1953)

Kamm, Oliver, Ph.D. 365 Lakeshore Drive, Detroit 30, Mich. *Research Consultant, Parke, Davis and Co.* (**2R,** 1928)

Kanter, Gerald S., Ph.D. Albany Med. College, Dept. of Physiology, Albany 8, N. Y. *Asst. Prof.* (**1,** 1955)

Kaplan, Alex, Ph.D. Michael Reese Hospital, Med. Research Inst., Chicago 16, Ill. *Asst. Dir., Dept. of Biochemistry.* (**1,** 1951)

Kaplan, Harold M., Ph.D. 510 W. Main St., Carbondale, Ill. *Prof. of Physiology, Southern Illinois Univ.* (**1,** 1954)

Kaplan, Nathan O., Ph.D. Johns Hopkins Univ., McCallum-Pratt Inst., Baltimore 18, Md. *Assoc. Prof. of Biology.* (**2,** 1949)

Karczmar, Alexander J., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Assoc. Member.* (**3,** 1953)

Karel, Leonard, Ph.D. Natl. Insts. of Health, Div. of Research Grants and Fellowships, Bethesda 14, Md. *Chief, Extramural Programs, Natl. Microbiological Inst.* (**3,** 1947)

Karlson, Alfred G., Ph.D., D.V.M. Mayo Foundation, Rochester, Minn. *Assoc. in Exper. Pathology.* (**4,** 1950)

Karnovsky, Manfred L., Ph.D. Harvard Med. School, Biophysical Lab., 25 Shattuck St., Boston 15, Mass. *Asst. Prof., Biological Chemistry.* (**2,** 1951)

Karpovich, Peter V., M.D., M.P.E. Springfield College, Springfield, Mass. *Prof. of Physiology.* (**1,** 1942)

Karshan, Maxwell, Ph.D. Columbia Univ., Dept. of Biochemistry, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (**2,** 1939)

Karsner, Howard T., M.D. Dept. of the Navy, Bureau of Medicine and Surgery, Research Div., Washington 25, D. C. *Med. Research Advisor.* (**4,** 1913)

Karush, Fred, Ph.D. Children's Hospital of Philadelphia, 1740 Bainbridge St., Philadelphia 46, Pa. *Assoc. Prof. of Immunology in Pediatrics, Univ. of Pennsylvania.* (**6,** 1952)

Karzon, David T., M.D. Children's Hospital, 219 Bryant St., Buffalo 22, N. Y. *Asst. Prof. of Pediatrics; Dir., Virology Lab.* (**6,** 1953)

Kass, Edward H., M.D., Ph.D. Boston City Hosp., Thorndike Memorial Lab., Boston 18, Mass. *Asst. Physician; Assoc. in Medicine, Harvard Med. School.* (**6,** 1955)

Katz, Joseph, Ph.D. Univ. of California, Dept. of Physiology, Berkeley. *Asst. Research Physiologist.* (**2,** 1955)

Katz, Louis Nelson, M.D. 2900 Ellis Ave., Chi-

cago, Ill. *Dir. of Cardiovascular Research, Michael Reese Hospital.* (**1,** 1924)

Katzman, Philip A., Ph.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Prof. of Biochemistry.* (**2,** 1935)

Kaufman, Nathan. Cleveland City Hospital, 3395 Scranton, Rd., Cleveland 9, Ohio. *Pathologist-in-Charge, Cleveland City Hosp.; Assoc. Prof. of Pathology, Western Reserve Univ.* (**4,** 1953)

Kaufman, Seymour, Ph.D. Natl. Inst. for Mental Health, NIH, Bethesda 14, Md. (**2,** 1953)

Kaulbersz, Jerzy, Ph.D. M.D. Collegium Medica, Grzegorzecka 16, Cracow, Poland. *Prof. of Physiology.* (**1,** 1944)

Kaunitz, Hans, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Research Assoc. in Pathology.* (**4,** 1947)

Kazal, Louis Anthony, Ph.D. Med. Div., Sharp & Dohme, Div. of Merck & Co., West Point, Pa. *Technical Asst. to Med. Dir.* (**2,** 1947)

Kearney, Edna B., Ph.D. Dept. of Biochemistry, Edsel B. Ford Inst. for Med. Research, Henry Ford Hosp., Detroit 2, Mich. (**2,** 1953)

Keasling, Hugh H., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Assoc. Prof. of Pharmacology.* (**3,** 1953)

Keats, Arthur S., M.D. Jefferson Davis Hosp., Houston, Texas. *Prof. of Anesthesiology, Baylor Univ. College of Medicine.* (**3,** 1951)

Keeton, Robert W., M.D. 1500 Hinman Ave., Evanston, Ill. *Prof. Emeritus of Medicine, Univ. of Illinois, College of Medicine.* (**1,** 1916; **3,** 1924)

Kehoe, Robert A., M.D. Univ. of Cincinnati College of Medicine, Kettering Lab., Cincinnati, Ohio. *Dir., Dept. of Preventive Medicine and Industrial Health.* (**1,** 1940)

Keighley, Geoffrey, Ph.D. California Inst. of Technology, 1201 E. California St., Pasadena 4. *Sr. Research Fellow.* (**1,** 1954)

Keiles, Elsa Orent, D.Sc. Natl. Insts. of Health, Div. of Research Grants, Bethesda 14, Md. *Biochemist.* (**2,** 1935; **5,** 1935)

Keith, Norman M., M.D. Mayo Clinic, Rochester, Minn. *Consulting Physician Emeritus, Div. of Medicine, Mayo Clinic; Prof. of Medicine Emeritus, Mayo Foundation, Univ. of Minnesota.* (**1,** 1920; **3R,** 1932; **4,** 1924)

Keith, T. B., Ph.D. Dept. of Animal Husbandry, Univ. of Idaho, Moscow. *Professor.* (**5,** 1941)

Kellaway, Peter, Ph.D. Baylor Univ. College of Medicine, Houston, Texas. *Assoc. Prof. of Neuropsychiatry and Physiology; Dir. of Lab. of Clin. Electrophysiology.* (**1,** 1947)

Keller, Allen D., Ph.D. Army Med. Research Lab., Fort Knox, Ky. (**1,** 1931)

Keller, Elizabeth B., Ph.D. Massachusetts Gen. Hosp., Huntington Lab., Boston 14. *Research Assoc. in Medicine. Harvard Med. School.* (**2,** 1955)

Kellner, Aaron, M.D. Cornell Univ. Med. College, Dept. of Pathology, 1300 York Ave., New York City 21. *Assoc. Prof. of Pathology; Dir. of Central Labs., New York Hospital–Cornell Med. Center.* (**4,** 1949)

Kelsey, F. Ellis, Ph.D. Univ. of South Dakota, Dept. of Pharmacology, Vermillion. *Prof. of Pharmacology; Chairman of Depts. of Physiology and of Pharmacology.* (**3,** 1941)

Kelsey, Frances Kathleen O., Ph.D., M.D. Univ. of South Dakota, Dept. of Physiology and Pharmacology, Vermillion. *Assoc. Prof. in Medicine.* (**3,** 1941)

Kemmerer, A. R., Ph.D. Univ. of Arizona, Tucson. *Head of Dept. of Agric. Biochemistry.* (**5,** 1946)

Kempe, Henry C. M.D. Univ. of California, School of Medicine, Dept. of Pediatrics, San Francisco 22. *Asst. Prof.* (**6,** 1951)

Kempner, Walter, M.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Medicine.* (**1,** 1940)

Kendall, Edward C., Ph.D. 3 Queenston Place, Princeton, N. J. *Visiting Prof. in Chemistry, James Forrestal Research Center, Princeton Univ.* (**1,** 1916; **2R,** 1913; **4,** prior to 1920).

Kendall, Forrest E., Ph.D. 240–06 53rd Ave., Douglaston, Long Island, N. Y. *Prof. of Biochemistry, Columbia Univ.* (**6,** 1943)

Kennard, Margaret A., M.D. Univ. of British Columbia, Hut B-5, Vancouver, B. C., Canada. (**1,** 1934)

Kennedy, Cornelia, Ph.D. 2700 W. Robbins St., Minneapolis 10, Minn. *Prof. Emeritus of Agricultural Biochemistry, Univ. of Minnesota.* (**2R,** 1924; **5R,** 1934)

Kennedy, Eugene P., Ph.D. Univ. of Chicago, Ben May Lab., Chicago 37, Ill. *Assoc. Prof.* (**2,** 1953)

Kennedy, Thomas J., Jr., M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Research Assoc., Lab. of Kidney and Electrolyte Physiology.* (**1,** 1953)

Kensler, Charles J., Ph.D. Arthur D. Little, Inc., Cambridge, Mass. *Pharmacologist and Head of Biology Dept.; Lecturer in Pharmacology, Harvard Med. School.* (**3,** 1949)

Kent, John F., Ph.D. Army Med. Center, Washington 12, D. C. *Chief, Dept. of Serology, Army Med. Service Grad. School.* (**6,** 1947)

Kenton, Harold B., Ph.D. New England Deaconess Hospital, Boston, Mass. *Bacteriologist and Dir. of the Blood Bank.* (**6,** 1934)

Kenyon, Allan T., M.D. Univ. of Chicago, Div. of Biological Sciences, 950 E. 59th St., Chicago, Ill. *Prof. of Medicine.* (**3,** 1940)

Keresztesy, John C., Ph.D. Natl. Insts. of Health,

Bethesda 14, Md. *Chief, Section on Fractionation and Isolation.* (**2,** 1941; **5,** 1945)

Kerr, Stanley E., Ph.D. American Univ. of Beirut, Beirut, Lebanon. *Prof. of Biological Chemistry.* (**2,** 1937)

Kerr, W. J., M.D. Kerrydale Ranch, Box 338, Blue Lake, Humbolt Co., Calif. (**3R,** 1930)

Kesten, Homer D., M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Assoc. Prof. of Pathology, Columbia Univ.; Dir. of Labs., White Plains Hosp.* (**4,** 1931)

Keston, Albert S., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Asst. Prof., Dept. of Biochemistry.* (**2,** 1950)

Kety, Seymour S., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Scientific Dir., Natl. Inst. of Mental Health and Inst. of Neurology and Blindness.* (**1,** 1949; **3,** 1945)

Keys, Ancel, Ph.D. Univ. of Minnesota, Stadium Gate 27, Minneapolis 14. *Prof. and Dir. of Lab. of Physiological Hygiene.* (**1,** 1939; **2,** 1936)

Kibrick, Andre C., Ph.D. New York Univ., College of Medicine, 477 First Ave., New York City 16. *Biochemist, VA. Hosp.* (**2,** 1950)

Kidd, John G., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Prof. of Pathology; Pathologist-in-Chief, New York Hospital.* (**4,** 1937; **6,** 1937)

Kidder, George W., Ph.D. Amherst College, Amherst, Mass. *Stone Prof. of Biology.* (**2,** 1949)

Kielley, W. Wayne, Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Chemist.* (**2,** 1953)

Kies, Marian W., Ph.D. Natl. Inst. of Mental Health, Bethesda 14, Md. *Biochemist, Clinical Investigations Div.* (**2,** 1948)

Kik, M. C., Ph.D. Univ. of Arkansas College of Agriculture, Fayetteville. *Prof. of Agricultural Chemistry.* (**5,** 1942)

Kilborn, L. G., M.D., Ph.D. Univ. of Hong Kong, Dept. of Physiology, Hong Kong. *Prof. of Physiology.* (**1,** 1928)

Kilbourne, Edwin Dennis, M.D. Cornell Univ. Med. College, 1300 York Ave,, New York City 21. *Assoc. Prof., Public Health and Preventive Medicine.* (**6,** 1953)

Kilham, Lawrence, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon, PHS.* (**6,** 1950)

Killam, Eva King, Ph.D. Univ. of California College of Medicine, Dept. of Anatomy, Los Angeles 24. *Research Pharmacologist.* (**3,** 1953)

Killian, John Allen, Ph.D. Killian Research Labs., Inc., 49 W. 45th St., New York City. (**2,** 1912)

Kimura, Eugene T., Ph.D. Abbott Labs., Dept. of Pharmacology, North Chicago, Ill. *Pharmacologist.* (**3,** 1954)

Kimura, Kazuo K., Ph.D., M.D. Children's Med. Service, Massachusetts General Hosp., Boston 14. (**3,** 1950)

Kinard, F. W., Ph.D., M.D. Med. College of South Carolina, Charleston 16. *Prof. of Physiology.* (**1,** 1947)

King, Barry G., Ph.D. Dept. of Commerce, Civil Aeronautics Admin., Med. Div., Washington, D. C. *Research Exec.* (**1,** 1938)

King, Charles Glen, Ph.D. Nutrition Foundation. Inc., 99 Park Ave., New York City. *Scientific Dir.; Prof. of Chemistry, Columbia Univ.* (**2,** 1931; **5,** 1933)

King, Henry Eugene, Ph.D. Tulane Univ. School of Medicine, Dept. of Psychiatry and Neurology, 1430 Tulane Ave., New Orleans 12, La. *Assoc. Prof.* (**1,** 1950)

King, Jessie, Ph.D. Towson, Md. (**1R,** 1914)

King, Joseph T., M.D., Ph.D. Univ. of Minnesota Med. School, 314 Millard Hall, Minneapolis. *Prof. of Physiology.* (**1,** 1931)

King, Tsoo E., Ph.D. Oregon State College, Dept. of Chemistry, Corvallis. *Assoc. Prof.* (**2,** 1952)

Kinney, Thomas D., M.D. Cleveland City Hospital, 3395 Scranton Rd., Cleveland, Ohio. *Dir. of Pathology; Prof. of Pathology, Western Reserve Univ.* (**4,** 1950)

Kinosita, Riojun, Ph.D., M.D. City of Hope Med. Ctr., Div. of Research, Duarte, Calif. *Chairman, Dept. of Cytology.* (**4,** 1955)

Kirch, Ernst R., Ph.D. Univ. of Illinois, 833 S. Wood St., Chicago 12. *Prof. of Chemistry.* (**2,** 1948)

Kirchhof, Anton C., M.D. 758 S. View Rd., Oswego, Ore. *Anesthesiologist, Providence Hosp., Portland.* (**3,** 1947)

Kirk, John E., M.D. Washington Univ. School of Medicine, 5600 Arsenal St., St. Louis 9, Mo. *Research Dir., Gerontology.* (**2,** 1950)

Kirk, Paul L., Ph.D. Univ. of California, Berkeley. *Prof. of Criminalistics.* (**2,** 1933)

Kirkwood, Sam, Ph.D. McMaster Univ., Hamilton, Ontario, Canada. *Assoc. Prof. of Biochemistry.* (**2,** 1954)

Kirschbaum, Arthur, M.D., Ph.D. Baylor Univ. College of Medicine, Dept. of Anatomy, Houston, Tex. *Prof. and Chairman of Dept.* (**4,** 1948)

Kisch, Bruno, M.D. Yeshiva Univ., New York City. *Prof. of Biochemistry.* (**1,** 1943)

Kitchen, Stuart F., M.D., M.P.H. Dept. of Natl. Health and Welfare, Lab. of Hygiene, Ottawa, Ont., Canada. (**6,** 1953)

Kleiber, M., D.Sc. Univ. of California, Davis. *Prof. of Animal Husbandry.* (**1,** 1943; **5,** 1933)

Klein, J. Raymond, Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Biochemist, Dept. of Biology.* (**2,** 1941)

Klein, Michael, Ph.D. Univ. of Florida, Cancer Research Lab., Gainesville. *Assoc. Prof. of Cancer Research.* (**4,** 1954)

Kleiner, Israel Simon, Ph.D. New York Med.

College, Flower and Fifth Ave. Hospital, New York City 29. *Prof. of Biochemistry, Dir., Dept. of Biochemistry.* (**1,** 1911; **2R,** 1912; **3R,** 1912; **5R,** 1933)

Kleinerman, Jerome, M.D. Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Sr. Instr. in Pathology; Assoc. Pathologist, Cleveland City Hosp.* (**4,** 1954)

Kleitman, Nathaniel, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Physiology.* (**1,** 1923)

Klemperer, Friedrich W., M.D. Veterans Admin. Hospital, Sunmount, New York. *Chief of Med. Service.* (**2,** 1941)

Kletzien, Seymour W., Ph.D. 319 S. Chester Rd., Swarthmore, Pa. *Biochemist, Cooper Hosp., Camden, N. J.* (**5,** 1933)

Kline, Daniel L., Ph.D. Yale Med. School, Dept. of Physiology, New Haven, Conn. *Asst. Prof.* (**1,** 1955)

Kline, O. L., Ph.D. Dept. of Health, Education and Welfare, Food and Drug Admin., Washington, D. C. *Biochemist.* (**5,** 1936)

Kline, Raymond F., Ph.D. 6832 Knollwood Dr., Dayton 3, Ohio. *Research Physiologist, Aero Med. Lab., Wright Air Development Center, Wright-Patterson Air Force Base.* (**1,** 1946)

Klotz, Irving M., Ph.D. Northwestern Univ., Evanston, Ill. *Prof. of Chemistry.* (**2,** 1947)

Klüver, Heinrich, Ph.D. Univ. of Chicago, Culver Hall, Chicago, Ill. *Prof. of Exptl. Psychology.* (**1,** 1935)

Knight, C. Arthur, Ph.D. Univ. of California, Biochemistry and Virus Lab., Berkeley 4. *Professor.* (**2,** 1946)

Knisely, Melvin H., Ph.D. Med. College of South Carolina, Charleston. *Chairman of Dept. of Anatomy.* (**1,** 1949)

Knöbil, Ernest, Ph.D. Harvard Med. School, Boston 15, Mass. *Assoc. in Physiology.* (**1,** 1955)

Knodt, Cloy B., Ph.D. General Mills, Inc., 801 North C St., Indianola, Iowa. *Dairy and Cattle Research Assoc.* (**5,** 1954)

Knoefel, Peter K., M.D., Univ. of Louisville, 101 W. Chestnut St., Louisville, Ky. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1934)

Knowlton, Frank P., M.D. Syracuse Univ. College of Medicine, Syracuse, N. Y. *Prof. Emeritus of Physiology.* (**1R,** 1911)

Knowlton, G. Clinton, Ph.D. Ellaville, Ga. (**1,** 1938)

Knox, W. Eugene, M.D. New England Deaconess Hosp., Boston 15, Mass. *Asst. Prof. of Biological Chemistry, Harvard Med. School.* (**2,** 1948)

Knudson, Arthur, Ph.D. Universitet Indonesia, Fakultet Kedokteran, Salemba 6, Djakarta, Indonesia. *Visiting Prof., Biochemistry.* (**2,** 1919; **5,** 1936)

Knutti, Ralph Eddy, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Extramural Programs, Natl. Inst. for Arthritis and Metabolic Diseases.* (**4,** 1933)

Kobayashi, Yoshito, M.D. Univ. of Tokyo, Faculty of Medicine, Bunkyo-ku, Tokyo, Japan. *Prof. of Pharmacology.* (**3,** 1953)

Kober, Philip A., B.S. Sherman Labs., Detroit, Mich. *Dir. of Research.* (**2R,** 1912)

Kobrak, Heinrich G., Ph.D. 8551 Allen Rd., Rt. 2, Clarkston, Mich. (**1,** 1948)

Kochakian, Charles D., Ph.D. Oklahoma Med. Research Fndn., 825 N. E. 13th St., Oklahoma City. *Coordinator of Research; Head, Biochemistry and Endocrinology Sec.; Prof. of Research Biochemistry, Univ. of Oklahoma School of Medicine.* (**1,** 1942; **2,** 1948)

Kocher, Rudolph Alfred, M.D. Box 936, Carmel, Calif. (**2R,** 1915)

Kocholaty, Walter F., Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Chief, Microbiology Sec.* (**2,** 1950)

Koehler, Alfred E., M.D., Ph.D. 225 Canon Dr. Santa Barbara, Calif. *Physician, Sansum Clinic, Santa Barbara Cottage Hospital.* (**2,** 1924)

Koehn, Carl J., Ph.D. Fitzsimons Army Hosp., Med. Nutrition Lab., Denver 8, Colo. *Deputy Cmding. Officer.* (**5,** 1949)

Koehne, Martha, Ph.D. 683 Glenmont Ave., Columbus 14, Ohio. (**5R,** 1933)

Koella, Werner Paul, M.D. HQ III Corps, Ft. Hood, Texas. *Major, USA.* (**1,** 1954)

Koelle, George B., Ph.D., M.D. Univ. of Pennsylvania, Grad. School of Medicine, Dept. of Physiology and Pharmacology, Philadelphia 4. *Prof. of Pharmacology.* (**3,** 1947)

Koenig, Virgil L., Ph.D. VA Research Hosp., 333 E. Huron St., Chicago 11, Ill. (**2,** 1953)

Koepf, George F., M.D. 537 Delaware Ave., Buffalo 2, N. Y. *Assoc. in Physiology and in Medicine, Univ. of Buffalo.* (**1,** 1942)

Koerber, Walter L., Ph.D. E. R. Squibb and Sons, New Brunswick, N. J. *Asst. Dept. Head.* (**6,** 1943)

Kohlstaedt, Kenneth G., M.D. Lilly Lab. for Clinical Research, Indianapolis General Hospital, Indianapolis 7, Ind. *Director.* (**1,** 1947)

Kohn, Henry I., Ph.D., M.D. Univ. of California Hospital, Radiology Dept., San Francisco 22. *Clinical Prof. of Exptl. Radiology.* (**1,** 1940)

Koletsky, Simon, M.D. Western Reserve Univ. School of Medicine, 2085 Adelbert Rd., Cleveland 6, Ohio. *Prof. of Pathology.* (**4,** 1951)

Kolmer, John A., M.D., D.P.H. 2101 Pine St., Philadelphia, Pa. *Prof. of Medicine, Temple Univ.; Dir. of Inst. of Public Health and Preventive Medicine.* (**6R,** 1913)

Komarov, Simon A., M.D., Ph.D. Temple Univ. School of Medicine, 3400 N. Broad St., Phila-

delphia 40, Pa. *Assoc. Prof. of Research Physiology.* (**1,** 1933)

Kopeloff, Nicholas, Ph.D. New York State Psychiatric Inst., 722 W. 168th St., New York City. *Principal Research Bacteriologist.* (**6,** 1937)

Koppanyi, Theodore, Ph.D. Georgetown Univ., Washington, D. C. *Prof. of Pharmacology.* (**1,** 1924; **3,** 1935)

Koprowski, Hilary, M.D. American Cyanamid Co., Research Div., Pearl River, N. Y. *Asst. Dir., Viral and Rickettsial Research.* (**6,** 1946)

Korkes, Seymour, M.D. Duke Univ. School of Medicine, Dept. of Biochemistry, Durham, N. C. *Assoc. Prof. of Biochemistry.* (**2,** 1952)

Kornberg, Arthur, M.D. Washington Univ., School of Medicine, St. Louis 10, Mo. *Prof. and Head, Dept. of Microbiology.* (**2,** 1949)

Korngold, Leonhard, Ph.D. Sloan-Kettering Inst. for Cancer Research, 410 E. 68th St., New York City 21. *Asst. in Immunochemistry.* (**6,** 1954)

Korr, Irvin M., Ph.D. Kirksville College of Osteopathy and Surgery, Kirksville, Mo. *Prof. of Physiology.* (**1,** 1939)

Koshland, D. E., Jr., Ph.D. Brookhaven Natl. Lab., Upton, N. Y. *Biochemist.* (**2,** 1954)

Koshland, Marian Elliott, Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Assoc. Bacteriologist.* (**6,** 1950)

Kosman, A. J., Ph.D. Northwestern Univ. Med. School, Dept. of Physiology, 303 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof.* (**1,** 1949)

Koster, Rudolf, Ph.D. Wellcome Research Labs., Tuckahoe, N. Y. *Pharmacologist.* (**3,** 1949)

Kottke, Frederic J., Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head, Dept. of Physical Medicine and Rehabilitation.* (**1,** 1947)

Kozelka, Frank L., Ph.D. Univ. of Wisconsin, Univ. Hosp. and State Lab. of Hygiene, Madison 6. *Prof. of Clin. Pathology.* (**3,** 1939)

Kozloff, Lloyd M., Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago 37, Ill. *Asst. Prof. of Biochemistry.* (**2,** 1951)

Kraatz, Charles P., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia, Pa. *Prof. of Pharmacology.* (**3,** 1950)

Krahl, Maurice E., Ph.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Physiology.* (**2,** 1939; **3,** 1949)

Krakower, Cecil Alexander, M.D. Univ. of Illinois College of Medicine, 1853 West Polk St.. Chicago. *Prof. of Pathology.* (**4,** 1945)

Kramer, Benjamin, A.M., M.D. 60 Plaza St., Brooklyn 17, N. Y. *Pediatric Consultant, Jewish Hosp. of Brooklyn; Clin. Prof. of Pediatrics, State Univ. of New York at New York City.* (**1,** 1915; **2,** 1914)

Kramer, Martha, Ph.D. Kansas State College, Manhattan. *Asst. Dean, School of Home Economics.* (**5,** 1933)

Kramer, S. D., M.D , Ph.D. 92 Washington Sq. East, Salem, Mass. *Virologist.* (**6,** 1944)

Krampitz, Lester O., Ph.D. Western Reserve Univ., 2109 Adelbert Rd., Cleveland 6, Ohio. *Prof. of Microbiology; Dir. of Dept.* (**2,** 1946; **6,** 1949)

Krantz, John C., Jr., Ph.D. Univ. of Maryland Med. School, Baltimore. *Prof. of Pharmacology.* (**3,** 1937)

Kratzer, F. H., Ph.D. Univ. of California, Dept. of Poultry Husbandry, Davis. *Professor.* (**5,** 1949)

Krause, Reginald F., Ph.D., M.D. West Virginia Univ. School of Medicine, Dept. of Biochemistry, Morgantown. *Prof. and Head of Dept.* (**2,** 1955)

Krauss, William E., Ph.D. Ohio Agricultural Exper. Station, Wooster. *Assoc. Dir.* (**2,** 1932; **5,** 1933)

Kraybill, Henry R., Ph.D. 5720 Woodlawn Ave., Chicago 37, Ill. *Professorial Lecturer, Dept. of Biochemistry, Univ. of Chicago; Vice-Pres. and Dir. of Research and Education, American Meat Inst. Foundation.* (**2,** 1942; **5,** 1951)

Krayer, Otto, M.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1938)

Krebs, Edwin G., M.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Assoc. Prof.* (**2,** 1952)

Kreezer, George L., Ph.D. Washington Univ., St. Louis 10, Mo. *Prof. of Psychology.* (**1,** 1948)

Krehl, Willard A., Ph.D. Yale Univ., 333 Cedar St., New Haven. Conn. *Assoc. Prof. of Nutrition.* (**2,** 1947; **5,** 1949)

Krieger, Carl H., Ph.D. Campbell Soup Co., Camden, N. J. *Dir. of Basic Research.* (**5,** 1954)

Kritchevsky, Theodore H., Ph.D. 171 Fort Lee Rd., Leonia, N. J. *Sloan-Kettering Inst. for Cancer Research.* (**2,** 1952)

Krop, Stephen, Ph.D. Chemical Corps Med. Labs., Army Chemical Center, Md. *Dep. Chief, Physiology Div.* (**1,** 1949; **3,** 1944)

Krueger, Albert Paul, M.D. Univ. of California, Berkeley. *Prof. of Bacteriology; Lecturer in Medicine.* (**4,** 1930; **6,** 1937)

Krueger, Hugo, Ph.D. Oregon State College, Dept. of Animal Husbandry, Corvallis. *Prof. of Physiology.* (**1,** 1931; **3,** 1935)

Krumbhaar, Edward B., M.D., Ph.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. Emeritus of Pathology.* (**1R,** 1914; **4,** prior to 1920)

Kruse, Harry Dayton, M.D., Sc.D. New York Academy of Medicine, 2 E. 103rd St., New York City 29. *Exec. Secy., Committee on Public Health Relations.* (**2,** 1933; **5,** 1950)

Kruse, Theophile K., Ph.D. Univ. of Pittsburgh Med. School, Pittsburgh, Pa. *Prof. and Chair-*

man of Physiology and Pharmacology. (**1,** 1919; **3,** 1920)

Kubicek, William G., Ph.D. Univ. of Minnesota Hospitals, Dept. of Physical Medicine and Rehabilitation, Minneapolis. *Professor.* (**1,** 1947)

Kubie, Lawrence S., M.D. 7½ E. 81st St., New York City 28. *Clin. Prof. of Psychiatry, Yale Univ. School of Medicine; Lecturer in Psychiatry, Columbia Univ. College of Physicians and Surgeons.* (**4,** 1928)

Kuffler, Stephen W., M.D. Johns Hopkins Med. School, Wilmer Inst., Baltimore 5, Md. *Assoc. Prof. of Ophthalmology.* (**1,** 1949)

Kuhn, Harry A., M.S. Park Lane Bldg., Suite 408, 2025 Eye St., N. W. Washington 6, D. C. *Consultant.* (**3,** 1927)

Kuhns, William J., M.D. Central Blood Bank and Dept. of Pathology, Univ. of Pittsburgh Med. Ctr., Pittsburgh 13, Pa. (**6,** 1954)

Kuiken, Kenneth A., Ph.D. Buckeye Cotton Oil Co., Cellulose and Specialties Technical Div., Memphis 8, Tenn. (**2,** 1950)

Kuizenga, Marvin H., Ph.D. Upjohn Company, Kalamazoo, Mich. *Asst. Dir. Research.* (**2,** 1947)

Kun, Ernest, M.D. Inst. for Enzyme Research, 1702 University Ave., Madison 5, Wis. (**2,** 1954; **3,** 1949)

Kunde, Margarete M., Ph.D., M.D. 30 N. Michigan Ave., Suite 1308, Chicago, Ill. *Instr. in Medicine, Northwestern Univ. Med. School.* (**1R,** 1924)

Kunitz, Moses, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2R,** 1947)

Kunkel, Harriott O., Ph.D. Texas A. and M. College, Dept. of Biochemistry and Nutrition, College Station. *Assoc. Prof.* (**2,** 1954)

Kunkel, Henry G., M.D. Rockefeller Inst., 66 and York Ave., New York City. *Member.* (**2,** 1953)

Kupperman, Herbert S., M.D., Ph.D. New York Univ. College of Medicine, Dept. of Therapeutics, 550 First Ave., New York City. *Adjunct Asst. Prof.* (**3,** 1950)

Kurtz, Alton C., Ph.D. Univ. of Oklahoma Med. School, Dept. of Biochemistry, Oklahoma City. *Professor.* (**2,** 1942)

Kuyper, Adrian C., Ph.D. Wayne Univ. College of Medicine, 1401 Rivard, Detroit 7, Mich. *Asst Prof. of Physiological Chemistry.* (**2,** 1946)

Kwit, Nathaniel T., M.D. Cornell Univ. Med. College, Dept. of Pharmacology, New York City 21. *Asst. Prof.* (**3,** 1955)

Kydd, D. M., M.D. State Univ. of New York Med. Center at New York, Dept. of Internal Medicine, Brooklyn 3. *Assoc. Prof. of Medicine.* (**5,** 1934)

Kyker, Granvil C., Ph.D. Oak Ridge Inst. of Nuclear Studies, Med. Div., P.O. Box 117, Oak Ridge, Tenn. *Chief Scientist.* (**2,** 1947)

LaBelle, Annette, B.A. Box 164, Marion, S. C. (**1,** 1948)

Lackey, Robert W., Ph.D. Univ. of Texas, Southwestern Med. School, Dept. of Physiology, Dallas 19, Texas. *Prof. of Physiology.* (**1,** 1947)

Lackman, David B., Ph.D. U. S. Public Health Service, Rocky Mountain Lab., Hamilton, Mont. *Chief, Serology-Pathology Section.* (**6,** 1952)

Lacorte, Jose G., M.D. Instituto Oswaldo Cruz, Rio de Janeiro, Brazil, S. A. *Chief, Virus Section; Prof., Univ. of Brazil.* (**6,** 1946)

Lacy, G. R., M.D. Univ. of Pittsburgh, Pittsburgh, Pa. *Prof. and Chairman of Dept. of Bacteriology and Immunology.* (**4,**1927)

Laird, Anna Kane, M.D., Ph.D. Argonne Natl. Lab., Lemont, Ill. *Assoc. Biologist.* (**4,** 1954)

Lalich, Joseph J., M.D. Univ. of Wisconsin, 426 N. Charter St., Madison 6. *Assoc. Prof. of Pathology.* (**4,** 1946)

Lamb, Alvin R., Ph.D. 60 Mariposa Ave., Los Gatos, Calif. (**2,** 1923; **5,** 1934)

Lambert, Edward H., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Assoc. Prof. of Physiology.* (**1,** 1945)

Lambert, Robert A., M.D. Greensboro, Ala. (**4,** 1922)

Lambertsen, Christian J., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. of Pharmacology.* (**1,** 1955; **3,** 1948)

Lambooy, John P., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Dept. of Physiology, Rochester 20, N. Y. *Asst. Prof. of Physiology.* (**2,** 1953)

Lampen, J. Oliver, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dir., Div. of Biochemical Research.* (**2,** 1947)

Lamport, Harold, M.D. Yale Univ. School of Medicine, New Haven, Conn. *Research Assoc. in Physiology.* (**1,** 1943)

Lamson, Baldwin G., Univ. of California, School of Medicine, Los Angeles 24. *Asst. Prof. of Pathology.*(**4,** 1952)

Lamson, Paul Dudley, M.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Pharmacology.* (**1R,** 1921; **3R,** 1915)

Lancefield, Rebecca C., Ph.D. 66th St. and York Ave., New York City 21. *Assoc. Member, Rockefeller Inst. for Med. Research.* (**6,** 1933)

Landis, Carney, Ph.D. Columbia Univ., Psychiatric Inst., 722 W. 168th St., New York City. *Principal Research Psychologist and Prof. of Psychology.* (**1,** 1939)

Landis, Eugene Markley, Ph.D., M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston 15, Mass. *George Higginson Prof. of Physiology.* (**1,** 1928)

Landowne, Milton, M.D. Baltimore City Hosps.,

Baltimore 24, Md. *Assoc. Chief, Sec. on Gerontology, Natl. Heart Inst., NIH, Bethesda.* (**1,** 1947)

Lands, Alonzo M., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head, Pharmacology Section.* (**1,** 1942; **3,** 1947)

Landy, Maurice, Ph.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Dept. of Bacterial Immunology.* (**6,** 1952)

Lane, Charles E., Ph.D. Univ. of Miami, Marine Lab., Coral Gables, Fla. *Research Assoc.; Assoc. Prof. of Marine Biology.* (**1,** 1952)

Langemann, Heinrich, M.D. Pharmakologisches Inst., Univ. of Zurich, Zurich, Switzerland. *Assistant.* (**3,** 1953)

Langham, Wright H., Ph.D. Univ. of California, Los Alamos Scientific Lab., Health Div., P. O Box 1663, Los Alamos, N.M. *Dir. of Biological and Med. Research.* (**2,** 1951)

Langley, L. L., Ph.D. Med. College of Alabama, Birmingham 5. *Assoc. Prof. of Physiology.* (**1,** 1951)

Langley, Wilson D., Ph.D. Univ. of Buffalo Med. School, 3435 Main St., Capen Hall, Buffalo, N. Y. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1937)

Langworthy, Orthello R., M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Psychiatry, Johns Hopkins Univ.* (**1,** 1928)

Lanni, Frank, Ph.D. Dept. of Bacteriology, Emory Univ., Emory University, Ga. (**6,** 1949)

Lapicque, L. The Sorbonne, Lab. of Physiology, Paris, France. (**1H,** 1946)

Laqueur, Gert Ludwig. Atomic Bomb Casualty Commission, APO 182, % Postmaster, San Francisco, Calif. (**4,** 1952)

Lardy, Henry A., Ph.D. Inst. for Enzyme Research, Univ. of Wisconsin, Madison 6. *Prof. of Biochemistry.* (**2,** 1946)

Larner, Joseph, M.D., Ph.D. Univ. of Illinois, Noyes Lab. of Chemistry, Urbana. *Asst. Prof.* (**2,** 1953)

Larrabee, Martin G., Ph.D. Johns Hopkins Univ., Biophysics Dept., Baltimore 18, Md. *Assoc. Prof.* (**1,** 1940)

Larsen, Eleanor M., Ph.D. Univ. of Wisconsin, Dept. of Physiology, S. M. I., Madison 6. *Asst. Prof. of Physiology.* (**1,** 1949)

Larson, Carl L., M.D. U. S. Public Health Service, Rocky Mountain Lab., Microbiological Inst., Hamilton, Mont. *Director.* (**6,** 1948)

Larson, Daniel L., M.D. College of Physicians and Surgeons, 620 W. 168th St., New York City 32. *Assoc. in Medicine.* (**6,** 1953)

Larson, Edward, Ph.D. Dept. of Zoology, Univ. of Miami, Coral Gables 46, Fla. *Prof. of Physiology.* (**1,** 1929; **3,** 1937)

Larson, Hardy W., Ph.D. Metropolitan Life Insurance Co., Biochemical Lab., 1 Madison Ave., New York City. *Research Chemist.* (**2,** 1937)

Larson, Paul S., Ph.D. Med. College of Virginia, Richmond. *Research Prof. of Pharmacology.* (**1,** 1939; **3,** 1947)

Lasagna, Louis, M.D. Johns Hopkins Med. School, Depts. of Pharmacology and Medicine, 710 N. Washington St., Baltimore, Md. (**3,** 1953)

Lashley, K. S., Ph.D. Yerkes Labs., Orange Park, Fla. *Research Prof. Emeritus of Neuropsychology, Harvard Univ.; Dir. Emeritus, Yerkes Labs. of Primate Biology, Inc.* (**1,** 1923)

Laskowski, M., Ph.D. Marquette Univ. Med. School, Milwaukee 3, Wis. *Prof. of Biochemistry.* (**2,** 1944)

Last, Jules H., Ph.D., M.D. 2360 Woodpath, Highland Park, Ill. *Asst. Prof. of Medicine, Northwestern Univ. Med. School, Chicago.* (**3,** 1948)

Latta, Harrison, M.D. Univ. of California School of Medicine, Los Angeles. *Assoc. Prof. of Pathology.* (**4,** 1954)

Lauffer, Max A., Jr., Ph.D. Univ. of Pittsburgh, Pittsburgh 13, Pa. *Research Prof. and Head of Dept. of Biophysics.* (**2,** 1946)

Laug, E. P., Ph.D. Food and Drug Admin., Div. of Pharmacology, 12th and C Sts. S. W., Washington 25, D. C. *Sr. Pharmacologist.* (**2,** 1938; **3,** 1947)

Laurens, Henry, Ph.D. Box 157, Flatrock, N. C. (**1R,** 1913)

Lauson, Henry D., Ph.D., M.D. Albert Einstein College of Medicine, Dept. of Physiology, New York 61, N. Y. *Prof. and Chairman of Dept.* (**1,** 1946)

Lavik, Paul S., Ph.D. Western Reserve Univ., Cleveland 6, Ohio. *Assoc. Prof. of Biochemistry; Asst. Prof. of Radiology.* (**2,** 1952)

Lavine, T. F., Ph.D. Lankenau Hospital Research Inst., Fox Chase, Philadelphia 11, Pa. *Sr. Member.* (**2,** 1938)

Law, Lloyd William, Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Head, Leukemia Studies Sec.* (**4,** 1952)

Lawrence, H. Sherwood, M.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Assoc. Prof. of Medicine.* (**6,** 1951)

Lawrence, John H., M.D. Univ. of California, Donner Lab., Berkeley 4. *Dir.; Prof. of Exper. Medicine.* (**1,** 1952)

Lawrence, W. Sherwood, M.D. 906 Hazel St., Gridley, Calif. *Physician and Surgeon.* (**3,** 1944)

Lawson, Hampden C., M.D., Ph.D. Univ. of Louisville, Louisville, Ky. *Prof. of Physiology.* (**1,** 1933)

Lawton, Alfred H., M.D., Ph.D. 16438 Redington

Dr., St. Petersburg, Fla. *Ward Physician, VA Admin. Ctr., Bay Pines.* (**1**, 1949; **3**, 1948)

Lawton, Richard W., M.D. Aviation Med. Acceleration Lab., Naval Air Development Ctr., Johnsville, Pa. *Head, Physiology Div.; Assoc. Prof. of Physiology, Univ. of Pennsylvania School of Medicine.* (**1**, 1951).

Leake, Chauncey D., Ph.D. Ohio State Univ., Hamilton Hall, Columbus 10. (**1**, 1923; **3**, 1924)

Leathem, James H., Ph.D. Rutgers Univ., New Brunswick, N. J. *Prof. of Zoology.* (**1**, 1945)

Lederer, Ludwig George, Ph.D., M.D. Natl. Airport, Room 70, Washington, D. C. *Med. Dir., Capital Airlines; Asst. Clin. Prof. of Medicine, George Washington Univ.* (**1**, 1940)

Lee, Douglas H. K., M.D. Johns Hopkins Univ., I. Bowman Dept. of Geography, Baltimore 18, Md. *Prof. of Physiological Climatology.* (**1**, 1949)

Lee, Henry M., Ph.D. Eli Lilly and Co., 740 South Alabama, Indianapolis 6, Ind. *Pharmacologist.* (**3**, 1952)

Lee, Kwang Soo, Ph.D., M.D. Jefferson Med. College, 1025 Walnut, Philadelphia 3, Pa. *Assoc. Prof. of Pharmacology.* (**3**, 1953)

Lee, Milton O., Ph.D. 9650 Wisconsin Ave., Washington 14, D. C. *Exec. Sec. and Managing Editor, American Physiological Society; Federation Sec.* (**1**, 1927; **5**, 1933)

Lee, Norman D., Ph.D. VA Med. Teaching Group Hosp., Radioisotope Unit, Memphis, Tenn. *Asst. Scientific Dir.; Lecturer in Chemistry, Univ. of Tennessee. Med. School.* (**2**, 1955)

Lee, Richard E., Ph.D., M.D. New York Hospital, Dept. of Medicine, New York City 21. *Asst. Prof. of Medicine, Cornell Univ. College of Medicine.* (**1**, 1950)

Leese, Chester E., Ph.D. George Washington Univ. School of Medicine, Washington, D. C. *Prof. and Head of Dept. of Physiology.* (**1**, 1934)

LeFevre, Paul G., Ph.D. U. S. Atomic Energy Commission, Washington 25, D. C. *Asst. to Chief (Research), Med. Branch.* (**1**, 1950)

Lehman, Arnold J., Ph.D., M.D. Food and Drug Admin., Dept. of Health, Education and Welfare, Washington 25, D. C. *Chief, Div. of Pharmacology.* (**3**, 1937)

Lehman, Robert A., Ph.D. 235 E. 22nd St., New York City. Campbell Pharmaceutical Co. *Dir. of Research.* (**3**, 1942)

Lehninger, Albert L., Ph.D. Johns Hopkins Univ., School of Medicine, Baltimore 5, Md. *De Lamar Prof. of Physiological Chemistry; Dir. of Dept.* (**2**, 1946; **5**, 1954)

Lehr, David, M.D. New York Med. College, Flower and Fifth Ave. Hospitals, Fifth Ave. at 105th St., New York City 29. *Assoc. Prof. in Medicine; Prof. and Dir. of Pharmacology.* (**3**, 1947)

Leichsenring, Jane M., Ph.D. Univ. of Minnesota, School of Home Economics, St. Paul. *Prof. of Nutrition.* (**5**, 1948)

Leighton, Joseph, M.D. Natl. Cancer Inst., Lab. of Pathology, NIH, Bethesda 14, Md. *Pathologist.* (**4**, 1954)

Leimdorfer, Alfred, M.D. Stritch School of Medicine of Loyola Univ., 706 S. Wolcott Ave., Chicago 12, Ill. *Research Prof. of Pharmacology.* (**1**, 1947)

Lein, Allen, Ph.D. Northwestern Univ. Med. School, Dept. of Physiology, Chicago 11, Ill. *Assoc. Prof.* (**1**, 1946)

Lenhart, Carl H., M.D. Lakeside Hospital, 2065 Adelbert Rd., Cleveland, Ohio. *Oliver H. Payne Prof. of Surgery, Western Reserve Univ.* (**1R**, 1921)

Lennette, Edwin H., Ph.D., M.D. California State Dept. of Public Health, 2151 Berkeley Way, Berkeley 4. *Chief, Viral and Rickettsial Disease Lab.* (**4**, 1941; **6**, 1947)

Leonard, Clifford Shattuck, Ph.D. 286 Whitfield St., Guilford, Conn. *Technical Assoc., Chemical-Biological Coordination Center, Natl. Research Council.* (**3**, 1927)

Leonards, Jack Ralph, Ph.D. Western Reserve Univ. Med. School, Cleveland, Ohio. *Assoc. Prof. of Biochemistry.* (**2**, 1948)

Leone, Charles A., Ph.D. Univ. of Kansas, Lawrence. *Assoc. Prof. of Zoology.* (**6**, 1954).

Le Page, G. A., Ph.D. Univ. of Wisconsin, McArdle Memorial Lab. for Cancer Research, Madison 6. *Prof. of Oncology.* (**2**, 1949)

Lepeschkin, Eugene, M.D. Univ. of Vermont College of Medicine, Burlington. *Assoc. Prof. of Exptl. Medicine.* (**1**, 1955)

Lepkovsky, Samuel, Ph.D. Univ. of California, Poultry Dept., Berkeley 4. *Prof. of Poultry Husbandry.* (**2**, 1933; **5**, 1933)

Lepow, Irwin H., Ph.D. Western Reserve Univ., Dept. of Pathology, 2085 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Biochemistry.* (**6**, 1954)

Lerner, Aaron B., M.D., Ph.D. Univ. of Oregon Med. School, Dept. of Dermatology, Portland. *Assoc. Prof.* (**2**, 1952)

L'Esperance, Elise L., M.D. 535 Pelham Manor Rd., Pelham Manor, N. Y. (**6**, 1920)

Lessler, Milton A., Ph.D. Ohio State Univ. College of Medicine, Columbus 10. *Asst. Prof. of Physiology.* (**1**, 1952)

Leuchtenberger, Cecilie, Ph.D. Western Reserve Univ., Cleveland, Ohio. *Assoc. Prof. of Cytology.* (**4**, 1954)

Levenbook, L., Ph.D., Jefferson Med. College, Biochemistry Dept., Philadelphia 7, Pa. *Asst. Prof.* (**1**, 1955)

Leverton, Ruth M., Ph.D. Oklahoma A & M College, Div. of Home Economics, Stillwater. *Asst. Dir., Agric. Exper. Sta.* (**5**, 1942)

Levey, Stanley, Ph.D. Univ. Hospitals of Cleveland, 2065 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Biochemistry, Western Reserve Univ. College of Medicine in the Dept. of Surgery, Lakeside Hospital.* (**2,** 1951)

Levin, Louis, Ph.D. Natl. Science Fndn., 1520 H St., N. W., Washington 25, D. C. *Program Dir., Regulatory Biology.* (**2,** 1939)

Levine, Harold, Ph.D. 941 E. Sylvan Ave., Milwaukee 11, Wis. *Hormel Products.* (**2,** 1933; **5,** 1933)

Levine, Philip, M.D. Ortho Research Foundation, Raritan, N J. *Dir. of Immunchematology.* (**6,** 1925)

Levine, Rachmiel, M.D. Michael Reese Hospital, Chicago, Ill. *Dir., Dept. of Metabolic and Endocrine Research; Chairman, Dept. of Medicine.* (**1,** 1942)

Levine, Samuel Z., M.D. New York Hospital, 525 E. 68th St., New York City. *Prof. of Pediatrics, Cornell Univ. Med. College; Pediatrician-in-Chief, New York Hospital.* (**5,** 1933)

Levine, Victor Emanuel, Ph.D., M.D. Creighton Univ. School of Medicine, Omaha, Nebr. *Prof. of Biological Chemistry and Nutrition.* (**2,** 1936)

Levinson, Samuel A., Ph.D., M.D. Univ. of Illinois College of Medicine, 808 S. Wood St., Chicago. *Prof. of Pathology; Dir. of Labs., Research and Educational Hospital.* (**4,** 1938)

Levintow, Leon, M.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Surgeon, PHS.* (**2,** 1954)

Levison, Louis A., M.D. 421 Michigan St., Toledo, Ohio. *Physician to Toledo and St. Vincent Hospitals.* (**6,** 1916)

Levitt, Marvin F., M.D. The Mount Sinai Hospital, 5th Ave. and 100th St., New York City 29. *Research Assoc., Dept. of Medicine.* (**1,** 1953)

Levy, Barnet M., D.D.S. Columbia Univ. School of Dental and Oral Surgery, 630 W. 168th St., New York City 32. *Prof. of Dentistry; Dir. of Research and Post-Grad. Studies.* (**4,** 1951)

Levy, Matthew Nathan, M.D. Albany Med. College, Dept. of Physiology, Albany 3, N. Y. *Assoc. Prof.* (**1,** 1951)

Levy, Milton, Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City. *Prof. of Chemistry.* (**2,** 1933)

Levy, Robert L., M.D. 730 Park Ave., New York City. *Prof. Emeritus of Clin. Medicine, Columbia Univ. College of Physicians and Surgeons.* (**3,** 1915)

Lewis, Alvin Edward, M.D. Mt. Zion Hospital, 1600 Divisadero St., San Francisco 15, Calif. *Pathologist.* (**1,** 1953)

Lewis, George T., Ph.D. Univ. of Miami School of Medicine, Dept. of Biochemistry, Coral Gables 46, *Professor and Chairman of Dept.* (**2,** 1949)

Lewis, Gladys Kinsman, Ph.D. 444 Fairfax, Denver 20, Colo. *Instr., Preventive Medicine and Public Health, Univ. of Colo.* (**5,** 1944)

Lewis, James C., Ph.D. USDA Western Utilization Research Branch, Albany 10, Calif. *Unit Leader.* (**2,** 1946)

Lewis, Jessica H., M.D. Univ. of Pittsburgh, Dept. of Medicine, Pittsburgh 13, Pa. *Research Assoc.* (**1,** 1949)

Lewis, John R., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Asst. Head of Sec. of Coordination.* (**3,** 1950)

Lewis, Julian Herman, M.D. 4750 Champlain Ave., Chicago, Ill. *Pathologist, St. Margaret Hosp., Hammond, Ind., and St. Catherine Hosp., E. Chicago, Ind.; Member, Otho S. A. Sprague Memorial Inst.* (**4,** 1924)

Lewis, Lena A., Ph.D. Cleveland Clinic, Euclid Ave. and E. 93rd St., Cleveland 6, Ohio. *Research Staff Member, Cleveland Clinic Fndn.* (**1,** 1946)

Lewis, Robert C., Ph.D. Univ. of Colorado, 4200 E. 9th Ave., Denver. *Prof. of Biochemistry.* (**2,** 1931; **5R,** 1933)

Lewis, Warren H., M.D. Wistar Inst. of Anatomy and Biology, Philadelphia, Pa. *Member.* (**1R,** 1919)

, Choh Hao, Ph.D. Univ. of California, 4596 Life
LiSciences Bldg., Berkeley. *Prof. of Biochemistry and Exper. Endocrinology.* (**2,** 1944)

Li, Tsung Han, M.D., D.Sc. (Med.) New England Med. Center, Boston 11, Mass. *Asst. Prof., Tufts Med. School.* (**3,** 1951)

Liao, Sung J., M.D. Massachusetts Gen. Hosp., Boston. *Clin. Fellow, Physical Medicine.* (**6,** 1954)

Libby, Raymond L., Ph.D. Univ. of California Med. Ctr., Los Angeles 24, *Assoc. Prof. of Radiology.* (**6,** 1938)

Liberson, W. T., M.D. Inst. of Living, Hartford, Conn. *Neurophysiologist.* (**1,** 1948)

Libet, Benjamin, Ph.D. Univ. of California Med. Center, 104 Med. School, San Francisco. *Assoc. Prof. of Physiology.* (**1,** 1942)

Lichstein, Herman C., Sc.D. Univ. of Minnesota Med. School, Dept. of Bacteriology and Immunology, Minneapolis 14. *Professor.* (**2,** 1952)

Licklider, J. C. R., Ph.D. Massachusetts Inst. of Technology, Dept. of Economics and Social Science, Cambridge. (**1,** 1938)

Liddell, Howard S., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Psychobiology; Dir. of Behavior Farm Lab.* (**1,** 1925)

Lieb, Charles C., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Emeritus Prof. of Pharmacology.* (**1R,** 1936; **3R,** 1915)

Lieberman, Arnold L., M.D., Ph.D. Veterans Administration Hospital, Northport, L. I., N. Y. *Chief, Med. Service.* (**1,** 1934)

Lieberman, Irving, D.V.M., Ph.D. Washington Univ. School of Medicine, Dept. of Microbiology, St. Louis 10, Mo. *Asst. Prof.* (**2,** 1955)

Lieberman, Seymour, Ph.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Lief, Philip A., M.D. Dept. of Anesthesiology, Mt. Sinai Hosp., 1 E. 100th St., New York City 29. *Anesthesiologist.* (**3,** 1952)

Liener, Irvin E., Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, St. Paul 8. *Assoc. Prof.* (**2,** 1953; **5,** 1955)

Lifson, Nathan, M.D., Ph.D. 2602 W. 54th St., Minneapolis, Minn. *Prof. of Physiology, Univ. of Minnesota Med. School.* (**1,** 1944)

Lightbody, Howard D., Ph.D. R. F. D. No. 3, Box 17-B, Mena, Ark. *U. S. Civil Service, Retired.* (**2,** 1936)

Ligon, Edgar William, Jr., Ph.D. USDA Agric. Research Service, Pesticide Regulation Sec., Washington 25, D. C. *In charge of Pharmacological and Rodenticide Unit.* (**3,** 1948)

Lilienthal, Joseph L., Jr., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Prof. of Environmental Medicine; Assoc. Prof. of Medicine.* (**1,** 1945)

Liljestrand, Göran, M.D. Ph.D. p.c. Caroline Inst., Stockholm, Sweden. *Emeritus Prof. of Pharmacology; Sec. Nobel Committee for Physiology and Medicine.* (**1H,** 1950)

Lillie, R. D., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Lab. of Pathology and Histochemistry; Med. Dir., PHS.* (**4,** 1941)

Lilly, John C., M.D. Natl. Inst. of Mental Health, NIH, Bethesda 14, Md. *Chief, Sec. on Cortical Integration, Lab. of Neurophysiology; Assoc. Prof. of Med. Physics and Exptl. Neurology, Univ. of Pennsylvania.* (**1,** 1950)

Lim, Robert Kho-Seng, M.B., Ph.D., D.Sc. Miles-Ames Research Lab., Elkhart, Ind. *Head of Physiology and Pharmacology Dept.* (**1,** 1923; **3,** 1952)

Lindeman, V. F., Ph.D. Syracuse Univ., 16 Lyman Hall, Syracuse, N. Y. *Prof. of Zoology.* (**1,** 1949)

Lindsay, Stuart, M.D. Univ. of California Med. School, Univ. Hospital, San Francisco 22. *Assoc. Prof. and Pathologist.* (**4,** 1949)

Lindsley, Donald B., Ph.D. Univ. of California Med. School, Los Angeles 24. *Prof. of Psychology.* (**1,** 1937)

Linegar, Charles R., Ph.D. E. R. Squibb and Sons, Div. of Olin-Mathieson Chemical Corp., New Brunswick, N. J. *Dir., Toxicology Research Div.* (**3,** 1938)

Lineweaver, Hans, Ph.D. USDA Western Utilization Research Br., Albany 10, Calif. *Head of Poultry Products Div.* (**2,** 1941)

Ling, Gilbert N., Ph.D. Univ. of Illinois, Neuropsychiatric Lab., 912 S. Wood St., Chicago 12. *Asst. Prof.* (**1,** 1951)

Link, Karl Paul, Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2,** 1931)

Lintz, William, M.D. 36 Plaza St., Brooklyn, N. Y. *Late Prof. of Immunology and Bacteriology and Clin. Prof. of Medicine, Long Island College of Medicine.* (**6R,** 1920)

Lipmann, Fritz, M.D., Ph.D. Massachusetts General Hosp., Boston 14. *Head, Biochemical Research Lab.; Prof. of Biological Chemistry, Harvard Med. School.* (**2,** 1941)

Lippincott, Stuart W., M.D. Univ. of Washington School of Medicine, Seattle. *Chairman, Dept. of Pathology.* (**4,** 1947)

Lippman, Richard W., M.D. 414 N. Camden Dr., Beverly Hills, Calif. (**1,** 1950)

Lipton, Morris A., Ph.D., M.D. VA Research Hosp., 333 E. Huron St., Chicago 11, Ill. *Chief, Investigative Medicine Service; Asst. Prof. of Medicine, Northwestern Univ. Med. School.* (**2,** 1946)

Lipton, Murray M., Ph.D. Univ. of Louisville School of Medicine, 101 W. Chestnut St., Louisville 2, Ky. *Asst. Prof. of Child Health Research.* (**6,** 1954)

Lisco, Hermann, M.D. Argonne Natl. Lab., Lemont, Ill., and Dept. of Pathology, Univ. of Chicago. (**4,** 1947).

Litchfield, John T., Jr., M.D. American Cyanamid Co., Research Div., Pearl River, N. Y. *Pharmacologist.* (**3,** 1940)

Little, James Maxwell, Ph.D. Bowman Gray School of Medicine of Wake Forest College, Winston-Salem, N. C. *Prof. of Pharmacology; Assoc. Prof. of Physiology.* (**1,** 1942; **3,** 1947)

Little, Robert C., M.D. Mead Johnson and Co., Evansville, Ind. *Dir. of Clinical Research.* (**1,** 1950)

Liu, Ch'ien, M.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Assoc. in Bacteriology and Immunology.* (**6,** 1953)

Live, Israel, V.M.D., Ph.D. Univ. of Pennsylvania School of Vet. Medicine, Philadelphia 4, Pa. *Prof. of Microbiology.* (**6,** 1955)

Livingston, Alfred E., Ph.D. St. John's Univ., College of Pharmacy, Brooklyn 1, N. Y. *Prof. and Head of Dept. of Pharmacology.* (**1R,** 1917; **3R,** 1920)

Livingston, Robert B., M.D. Univ. of California, School of Medicine, Los Angeles 24. *Assoc. Prof. of Anatomy and Physiology.* (**1,** 1949)

Lloyd, Charles W., M.D. State Univ. of New York College of Medicine, Syracuse 10. *Assoc. Prof. of Obstetrics (Endocrinology).* (**1,** 1955)

Lloyd, David P. C., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**1,** 1939)

Locke, Arthur P., Ph.D. 101 S.E. 16th Ave., Ft. Lauderdale, Fla. (**6R,** 1926)

Lodholz, Edward, M.D. Univ. of Pennsylvania, Med. Labs., Philadelphia. *Prof. Emeritus of Physiology, Grad. School of Medicine.* (**1R,** 1913)

Loeb, Leo, M.D. Washington Univ. Med. School, St. Louis, Mo. *Prof. Emeritus of Pathology.* (**1R,** 1907; **4,** 1913)

Loebel, Robert O., M.D. 205 East 78th St., New York City. (**1R,** 1928)

Loefer, John B., Ph.D. Office of Naval Research, 1030 E. Green St., Pasadena 1, Calif. *Coordinator for Biological Sciences.* (**1,** 1949)

Loew, Earl R., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. and Head of Dept. of Physiology.* (**1,** 1940; **3,** 1946)

Loewe, Leo, M.D. 177 New York Ave., Brooklyn 16, N. Y. (**3,** 1951)

Loewe, S., M.D. Univ. of Utah College of Medicine, Dept. of Pharmacology, Salt Lake City 1. *Research Prof.* (**3,** 1936)

Loewi, Otto, M.D. 155 E. 93rd St., New York City 28. *Research Prof. of Pharmacology, New York Univ. College of Medicine.* (**3H,** 1941)

Logan, Milan A., Ph.D. Univ. of Cincinnati College of Medicine, Eden and Bethesda, Cincinnati 19, Ohio. *Prof. of Biological Chemistry and Head of Dept.* (**2,** 1936)

Logrippo, Gerald A., M.D. Henry Ford Hospital, Dept. of Bacteriology and Virology, 2799 W. Grand Blvd., Detroit 2, Mich. *Sr. Assoc. in Charge.* (**6,** 1953)

Long, C. N. H., D.Sc., M.D. Yale Univ. Dept. of Physiology, 333 Cedar St., New Haven 11, Conn. *Sterling Prof. of Physiology.* (**1,** 1935; **2,** 1927)

Long, Esmond R., M.D., Ph.D. 7th and Lombard Sts., Philadelphia, Pa. *Prof. Emeritus of Pathology, Henry Phipps Inst., Univ. of Pennsylvania.* (**4R,** 1930)

Longenecker, Herbert Eugene, Ph.D. Univ. of Illinois, Chicago 12, Ill. *Vice-Pres. in Charge of Chicago Professional Colleges.* (**2,** 1940; **5,** 1945)

Longwell, Bernard B., Ph.D. The Lovelace Fndn., Ridgecrest Dr. and Gibson Ave., Albuquerque, N. M. *Head, Dept. of Biochemistry.* (**2,** 1946)

Loofbourrow, G. N., Ph.D. Univ. of Kansas, Dept. of Physiology, Lawrence. *Asst. Prof.* (**1,** 1950)

Loomis, Ted A., Ph.D., M.D. Univ. of Washington, School of Medicine, Dept. of Pharmacology, Seattle 5. (**3,** 1948)

Loomis, William F., M.D. Calhoun Drive, Greenwich, Conn. *Dir., Loomis Lab.* (**2,** 1952)

Looney, Joseph M., M.D. 17 Court St., Boston, Mass. *Chief of Labs., VA Outpatient Clinic; Research Prof. of Biochemistry, Boston Univ. School of Medicine.* (**2,** 1922)

Loosli, Clayton Garr, M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Preventive Medicine.* (**4,** 1940)

Loosli, J. K., Ph.D. Cornell Univ., Animal Nutrition Lab., Ithaca, N. Y. *Prof. of Animal Nutrition and Animal Nutritionist in Exper. Station.* (**5,** 1944)

Lorand, Laszlo, Ph.D. Northwestern Univ., Dept. of Chemistry, Evanston, Ill. *Asst. Prof.* (**1,** 1955)

Lorber, Stanley H., M.D. Temple Univ. School of Medicine, 3701 N. Broad St., Philadelphia 40, Pa. *Asst. Prof. of Medicine; Research Assoc., Fels Research Inst.* (**1,** 1951)

Lorber, Victor, M.D. Univ. of Minnesota, School of Medicine, Dept. of Physiology, Minneapolis 14. *Prof.; Career Investigator, Am. Heart Assn.* (**1,** 1944)

Lorente de Nó, Rafael, M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**1,** 1937)

Loring, H. S., Ph.D. Stanford Univ., Dept. of Chemistry, Stanford Univ., Calif. *Prof. of Biochemistry.* (**2,** 1938)

Lotspeich, William D., M.D. Univ. of Cincinnati College of Medicine, Dept. of Physiology, Eden and Bethesda Aves., Cincinnati 19, Ohio. *Professor.* (**1,** 1948)

Louis, Lawrence H., D.Sc. Univ. Hospital, Dept. of Internal Medicine, Ann Arbor, Mich. *Assoc. Prof. of Biological Chemistry, Univ. of Michigan.* (**2,** 1949)

Loveless, Mary H., M.D. New York Hospital, 525 E. 68th St., New York City. *Assoc. Prof. of Clin. Medicine, Cornell Univ. Med. School; Physician to Out-Patients, New York Hospital.* (**6,** 1941)

Lowe, Charles Upton, M.D. Univ. of Buffalo School of Medicine, Buffalo, N. Y. *Assoc. Prof. of Pediatrics; Dir. of Research, Children's Hosp. of Buffalo.* (**4,** 1954)

Lowell, Francis C., M.D. 65 East Newton St., Boston, Mass. *Assoc. Prof. of Medicine, Boston Univ. School of Medicine.* (**6,** 1942)

Lowenbach, Hans, M.D. Duke Univ. Med. School, Dept. of Psychiatry, Durham, N. C. *Professor.* (**1,** 1946)

Lowry, Oliver H., M.D., Ph.D. Washington Univ. School of Medicine, 4580 Scott Ave., St. Louis 10, Mo. *Prof. and Head of Dept. of Pharmacology.* (**2,** 1942; **3,** 1950)

Lu, Frank C., M.D. Dept. of Natl. Health and Welfare, Food and Drug Labs., Ottawa, Ont., Canada. *Pharmacologist.* (**3,** 1951)

Lu, Go, M.D., Ph.D. Johnson & Johnson Research Fndn., New Brunswick, N. J. *In Charge, Pharmacodynamics Sec.* (**3,** 1949)

Lubinski, Herbert, M.D. Jewish General Hospital, 3755 St. Catherine Rd., Montreal, Quebec, Canada. *Bacteriologist and Serologist.* (**6,** 1941)

Lucas, Colin C., Ph.D. Univ. of Toronto, Banting and Best Dept. of Med. Research, Toronto, Ontario, Canada. *Professor.* (**2,** 1946)

Lucas, Fred V., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Pathology, New York City 32. *Professor.* (**4**, 1955)

Lucas, George H. W., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Pharmacology.* (**2**, 1925; **3**, 1928)

Luck, James Murray, Ph.D. Stanford Univ., Stanford, Calif. *Prof. of Biochemistry.* (**2**, 1925)

Luckey, Thomas D., Ph.D. Univ. of Missouri School of Medicine, Columbia. *Chairman, Dept. of Biochemistry.* (**5**, 1953)

Luckhardt, Arno Benedict, Ph.D., M.D. 5216 S. Greenwood Ave., Chicago, Ill. *Dr. William Beaumont Distinguished Service Prof. Emeritus of Physiology, Univ. of Chicago.* (**1**, 1911)

Ludewig, Stephan, Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Assoc. Prof. of Biochemistry.* (**2**, 1941)

Luduena, Froilan P., Ph.D., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Pharmacologist.* (**3**, 1941)

Luecke, Richard W., Ph.D. Michigan State College, Dept. of Agricultural Chemistry, East Lansing. *Prof. (Research).* (**5**, 1950)

Luft, Ulrich C., M.D. Lovelace Fndn. and Clinic, Albuquerque, N. M. *Head, Dept. of Physiology.* (**1**, 1950)

Lukens, Francis D. W., M.D. Univ. of Pennsylvania, 811 Maloney Clinic, 36th and Spruce Sts., Philadelphia. *Prof. of Medicine.* (**1**, 1938)

Lundberg, Walter O., Ph.D. Hormel Inst., Austin, Minn. *Director; Prof. of Agricultural Biochemistry, Univ. of Minnesota.* (**2**, 1949)

Lundgren, Harold P., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 10, Calif. *Head, Protein Sec.* (**2**, 1942)

Lundy, John Silas, M.D. Mayo Clinic, Rochester, Minn. *Sr. Consultant.* (**3**, 1935)

Lurie, Max B., M.D. Henry Phipps Inst., 7th and Lombard Sts., Philadelphia, Pa. *Prof. of Exper. Pathology.* (**4**, 1934; **6**, 1930)

Lushbaugh, Clarence C., M.D., Ph.D. Los Alamos Scientific Lab., P. O. Box 1663, Los Alamos, N. Mex. *Staff Member; Pathologist, Los Alamos Hospital.* (**4**, 1950)

Lutz, Brenton R., Ph.D. Boston Univ., 675 Commonwealth Ave., Boston, Mass. *Prof. of Biology.* (**1**, 1925)

Luyet, Basile J., Sc.D. (Biol. and Physics). St. Louis Univ., Inst. of Biophysics, St. Louis, Mo. *Director.* (**1**, 1936)

Lyman, Carl M., Ph.D. A and M College of Texas, Texas Agricultural Exper. Station, College Station. *Prof. and Head of Dept. of Biochemistry and Nutrition.* (**2**, 1940; **5**, 1952)

Lyman, Charles Peirson, Ph.D. Harvard Univ., Museum of Comparative Zoology, Cambridge. Mass. *Assoc. Curator of Mammals; Research Assoc., Dept. of Anatomy, Harvard Med. School.* (**1**, 1951)

Lyman, John F., Ph.D. Route 2, Westerville, Ohio. *Emeritus Prof. of Agricultural Biochemistry, Ohio State Univ.* (**2R**, 1920; **5R**, 1933)

Maas, Werner K., Ph.D. New York Univ. College of Medicine, Dept. of Pharmacology, New York City 16. *Asst. Prof.* (**2**, 1955)

Maaske, Clarence A., Ph.D. Univ. of Colorado School of Medicine, 4200 E. 9th Ave., Denver. *Prof. and Head, Dept. of Physiology.* (**1**, 1945)

Macallum, A. Bruce, M.D., Ph.D. Univ. of Western Ontario Med. School, London, Ontario, Canada. (**2R**, 1914)

MacCardle, Ross C., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Principal Cytologist.* (**4**, 1948)

MacCorquodale, D. W., Ph.D. Abbott Labs., North Chicago, Ill. *Head of Biochemical Research.* (**2**, 1934)

MacDonald, Norman S., Ph.D. Univ. of California Med. School, Los Angeles 24. *Assoc. Prof. of Biophysics.* (**2**, 1955)

MacFadyen, Douglas A., M.D. Presbyterian Hospital, 1753 W. Congress St., Chicago 12, Ill. *Chairman of Dept. of Biochemistry.* (**2**, 1942)

Macht, David Israel, M.D. Sinai Hospital, Baltimore, Md. *Consultant Pharmacologist; Research Pharmacologist, Sinai Hospital Labs.* (**1R**, 1916; **3**, 1915)

Macht, Martin B., Ph.D., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Asst. Clin. Prof. of Medicine.* (**1**, 1948)

MacIntosh, F. C., Ph.D. McGill Univ., Dept. of Physiology, Montreal, Quebec, Canada. *Professor and Chairman of Dept.* (**1**, 1950; **3**, 1950)

MacKay, Eaton M., M.D. 120 S. Lasky Drive, Beverly Hills, Calif. (**1**, 1930)

MacKay, Ian F. S., Ph.D. Univ. College of the West Indies, Jamaica, British West Indies. *Prof. of Physiology.* (**1**, 1949)

Mackenzie, Cosmo G., Sc.D. Univ. of Colorado School of Medicine, Dept. of Biochemistry, 4200 E. 9th Ave., Denver 7. *Prof. and Head of Dept.* (**1**, 1946; **2**, 1946; **5**, 1942)

Mackenzie, Julia B., Sc.D. Univ. of Colorado Med. School, 4200 E. 9th Ave., Denver. *Asst. Prof. of Biochemistry.* (**2**, 1952)

MacLeod, Colin M., M.D. New York Univ. College of Medicine, 550 First Ave., New York City. *Prof. of Bacteriology.* (**6**, 1937)

MacLeod, Florence L., Ph.D. Univ. of Tennessee, Knoxville. *Prof. of Nutrition.* (**2**, 1927; **5**, 1933)

MacLeod, Grace, Ph.D. 106 Morningside Drive, New York City 27. *Prof. Emeritus of Nutrition, Teachers College, Columbia Univ.* (**2R**, 1924; **5R**, 1933)

MacLeod, John, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Assoc. Prof. of Anatomy.* (**1**, 1942)

MacLeod, Robert A., Ph.D. Pacific Fisheries Exper. Station, 898 Richards St., Vancouver 2, B. C., Canada. *Sr. Biochemist.* **(2,** 1953)

Mackler, Bruce, M.D. Univ. of Wisconsin, Enzyme Inst., Madison 5. *Asst. Prof. of Enzyme Chemistry.* **(2,** 1955)

MacPherson, Catherine F. C., Ph.D. 236 Brock Ave. N., Montreal West, Quebec, Canada. **(2,** 1947)

MacPhillamy, Betty B., Ph.D. 145 Greene Ave., Madison, N. J. *Bacteriologist.* **(6,** 1944)

MacVicar, Robert, Ph.D. Oklahoma A & M College, Stillwater. *Prof. and Head of Dept. of Agricultural Chemistry.* **(2,** 1949; **5,** 1954)

Madden, Sidney C., M.D. Univ. of California School of Medicine, Dept. of Pathology, Los Angeles 24. *Prof. and Chairman of Dept.* **(4,** 1939)

Maddock, Stephen, M.D. Boston City Hospital, Boston, Mass. *Dir. of Surgical Research Lab.; Asst. Prof. of Surgery, Tufts Med. School.* **(4,** 1931)

Maddock, William O., M.D., Ph.D. Wayne Univ. College of Medicine, Dept. of Medicine, 1401 Rivard, Detroit 7, Mich. *Asst. Prof. of Medicine.* **(1,** 1951)

Madsen, Louis L., Ph.D. State College of Washington, Inst. of Agric. Sciences, Pullman. *Director.* **(5,** 1940)

Magasanik, Boris, Ph.D. Harvard Med. School, Dept. of Bacteriology, 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Bacteriology and Immunology.* **(2,** 1952)

Magath, Thomas B., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Head of Div. of Clin. Labs.; Prof. of Clin. Pathology and Parasitology, Univ. of Minnesota; Mayo Foundation.* **(1,** 1928)

Magee, Donald F., Ph.D. Univ. of Washington, Dept. of Pharmacology, Seattle 5. *Asst. Prof.* **(1,** 1954)

Magill, Thomas P., M.D. State Univ. of New York at New York, College of Medicine, 335 Henry St., Brooklyn 1. *Prof. of Microbiology and Immunology.* **(6,** 1937)

Magladery, J. W., M.D., Ph.D., M.R.C.P. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Neurology, Johns Hopkins University.* **(1,** 1950)

Magnuson, Harold J., M.D., M.P.H. Univ. of North Carolina, Chapel Hill. *Dir. V. D. Exper. Lab.* **(4,** 1950)

Magoun, Horace W., Ph.D. Univ. of California Med. School, Los Angeles 24. *Prof. of Anatomy.* **(1,** 1937)

Mahler, Henry R., Ph.D. Indiana Univ., Dept. of Chemistry, Bloomington. *Assoc. Prof.* **(2,** 1953)

Main, Rolland J., Ph.D. Eaton Labs., Eaton Ave., Norwich, N. Y. *Med. Editor and Consultant in Physiology.* **(1,** 1936)

Maison, George L., M.D. Riker Labs., P. O. Box 3157, Terminal Annex, Los Angeles 54, Calif. *President.* **(1,** 1939; **3,** 1948)

Major, Randolph T., Ph.D. Merck and Co., Inc., Rahway, N. J. *Scientific Vice-Pres.* **(2,** 1942)

Maling, Harriet M., Ph.D. Natl. Heart Inst., Bethesda, Md. *Pharmacologist.* **(3,** 1953)

Malkiel, Saul, M.D., Ph.D. Peter Bent Brigham Hosp., Boston, Mass. *Res. Assoc. in Medicine and Assoc. in Medicine.* **(6,** 1948)

Mallette, M. F., Ph.D. Pennsylvania State Univ., University Park. *Assoc. Prof. of Physical Biochemistry.* **(2,** 1954)

Mallory, G. Kenneth, M.D. Mallory Inst. of Pathology, Boston City Hospital, Boston, Mass. *Pathologist-in-Chief.* **(4,** 1940)

Malmgren, Richard A., M.D. Univ. of Tennessee College of Medicine, Inst. of Pathology, Memphis 3. *Instructor; Surgeon, PHS.* **(4,** 1955)

Maloney, Arnold H., Ph.D., M.D. Howard Univ. School of Medicine, Washington, D. C. *Prof., Dept. of Pharmacology.* **(3,** 1932)

Maloney, James V., Sr., M.D. Univ. of California Med. School, Dept. of Surgery, Los Angeles. *Asst. Prof.* **(1,** 1951)

Maltaner, Frank, Ph.D. 388 New Scotland Ave., Albany, N. Y. **(6R,** 1920)

Maluf, Noble S. R., Ph.D., M.D. Veterans Administration Hospital, Dept. of Surgery, Holcombe Blvd., Houston, Tex. *Chief of Urology.* **(1,** 1942)

Man, Evelyn B., Ph.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Asst. Prof. in Thyroid Lab., Dept. of Medicine.* **(2,** 1936)

Mandel, H. George, Ph.D. George Washington Univ. School of Medicine, Dept. of Pharmacology, 1335 H St., N. W., Washington 5, D. C. *Assoc. Prof. of Pharmacology.* **(2,** 1953; **3,** 1955)

Mandl, Ines, Ph.D. 166 W. 72nd St., New York City 23. *Research Assoc., Columbia Univ., College of P. & S.* **(2,** 1952)

Manery, Jeanne Forest, Ph.D. Univ. of Toronto Med. School, Toronto, Ontario, Canada. *Asst. Prof. of Biochemistry.* **(1,** 1937)

Mangun, George H., Ph.D. Warner-Chilcott Research Labs., Morris Plains, N. J. *Dir. of Research.* **(2,** 1947)

Manire, George Philip, Ph.D. Univ. of North Carolina School of Medicine, Dept. of Bacteriology, Chapel Hill. *Assoc. Prof.* **(6,** 1953)

Mann, Frank C., M.D. 605-11th St. S.W., Rochester, Minn. *Prof. Emeritus of Exper. Medicine, Mayo Foundation.* **(1,** 1916; **4R,** 1924)

Mann, Frank D., Ph.D., M.D. 102-110 2nd Ave., S.W., Rochester, Minn. *Med. Consultant.* **(1,** 1950; **4,** 1950)

Mann, George V., Sc.D., M.D. 200 Oakland St., Wellesley Hills, Mass. *Surgeon (R), PHS, as-*

signed to Heart Disease Epidemiology Study, Framingham. (**5,** 1951)

Mann, Joseph Daniel, M.D. Butterworth Hosp., 300 Bostwick, N.E., Grand Rapids 3, Mich. *Dir. of Labs.* (**4,** 1953)

Manning, G. W., M.D., Ph.D. Victoria Hospital, London, Ontario, Canada. *Asst. Prof. of Clin. Investigation, Dept. of Medicine; Lecturer, Dept. of Physiology, Univ. of Western Ontario.* (**1,** 1944)

Manville, Ira Albert, M.D., Ph.D. 811 N. W. 19th Ave. Portland 9, Ore. (**1,** 1933)

Manwaring, Wilfred H., M.D. 364 Kingsley Ave., Palo Alto, Calif. *Prof. Emeritus of Bacteriology and Exper. Pathology, Stanford Univ.* (**4,** prior to 1920; **6,** 1917)

Marbarger, John P., Ph.D. 394 S. Kenilworth Ave., Elmhurst, Ill. *Research Dir., Aeromed. and Physical Environment Lab.; Prof. of Physiology.* (**1,** 1949)

Marcus, Stanley, Ph.D. Univ. of Utah, Dept. of Bacteriology, Salt Lake City. *Assoc. Prof.* (**6,** 1948)

Maren, Thomas H., M.D. Univ. of Florida School of Medicine, Dept. of Pharmacology, Gainesville *Prof. and Chairman of Dept.* (**3,** 1950)

Marine, David, M.D. 18 Baltimore Ave., Rehoboth, Del. (**1R,** 1910; **4R,** 1913)

Mark, Lester C., M.D. Dept. of Anesthesiology, Columbia Univ. College of Physicians and Surgeons, New York City. *Asst. Prof. of Anesthesiology.* (**3,** 1950)

Markee, Joseph E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Anatomy.* (**1,** 1945)

Markowitz, J., M.D., Ph.D. Univ. of Toronto School of Medicine, Toronto, Ontario, Canada. *Assoc. Prof. of Physiology.* (**1,** 1929)

Marmont, George H., Ph.D. 133 N. Mansfield Ave., Los Angeles 36, Calif. (**1,** 1941)

Marmorston, Jessie. Inst. for Med. Research, 4751 Fountain Ave., Los Angeles, Calif. *Asst. Prof. of Exptl. Medicine, Univ. of Southern California; Staff, County and Cedars of Lebanon Hospitals.* (**6,** 1932)

Marrazzi, Amedeo S., M.D. Med. Labs., Army Chemical Center, Md. *Chief, Clinical Research Div.* (**1,** 1949; **3,** 1938)

Marsh, David F., Ph.D. McNeil Labs., 2900 N. 17th St., Philadelphia 32, Pa. *Head, Pharmacology Dept.* (**3,** 1946)

Marsh, Gordon, Ph.D. State Univ. of Iowa, Iowa City. *Assoc. Prof. of Zoology.* (**1,** 1944)

Marsh, Julian B., M.D. Univ. of Pennsylvania Grad. School of Medicine, Dept. of Biochemistry, Philadelphia 4. *Asst. Prof.* (**2,** 1955)

Marsh, M. Elizabeth, Ph.D. Univ. of California Med. Center, School of Medicine, Dept. of Pathology, San Francisco 22. *Asst. Research Pathologist.* (**1,** 1929; **5,** 1933)

Marshak, Alfred George, Ph.D. Marine Biological Lab., Woods Hole, Mass. (**1,** 1940)

Marshall, Eli Kennerly, Jr., Ph.D., M.D. Johns Hopkins Hospital, Baltimore, Md. *Prof. Emeritus of Pharmacology and Exptl. Therapeutics.* (**1R,** 1915; **2,** 1913; **3,** 1915)

Marshall, Lawrence M., Ph.D. Howard Univ., School of Medicine, Dept. of Biochemistry, Washington, D. C. *Assoc. Prof.* (**2,** 1952)

Marshall, Louise Hanson, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Disease, Bethesda, Md. *Physiologist.* (**1,** 1946)

Marshall, Wade H., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Neurophysiologist.* (**1,** 1937)

Martin, Arthur W., Jr., Ph.D. Univ. of Washington, Johnson Hall, Seattle. *Executive Officer, Dept. of Zoology.* (**1,** 1944)

Martin, Donald S., M.D. Communicable Disease Center, Bacteriology Section, P. O. Box 185, Chamblee, Ga. *Chief.* (**6,** 1943)

Martin, Foster N., Jr., Ph.D., M.D. Tulane Univ. Med. School, P.O. Station 20, New Orleans, La. *Asst. Prof. of Pharmacology.* (**3,** 1947)

Martin, Gustav J., Sc.D. National Drug Co., Research Labs., Haines & MacCollum Sts., Philadelphia, Pa. *Research Dir.* (**2,** 1951)

Martin, Samuel P., M.D. Duke Univ. Med. School, Durham, N. C. *Assoc. Prof.* (**6,** 1954)

Martin, Stevens J., Ph.D., M.D. St. Francis Hospital, Hartford, Conn. *Dir., Dept. of Anesthesiology.* (**1,** 1933)

Martinez, Carlos, M.D., Ph.D. Univ. of Minnesota, Dept. of Physiology, Minneapolis. *Asst. Prof. in Cancer Biology.* (**1,** 1955)

Marx, Walter, Ph.D. Univ. of Southern California School of Medicine, Los Angeles 7. *Prof. of Biochemistry.* (**2,** 1949)

Mason, Edward C., M.D., Ph.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Physiology.* (**1,** 1935)

Mason, Eleanor Dewey, Ph.D. Women's Christian College, Dept. of Physiology and Nutrition, Madras, 6, India. *P rofessor.* (**1,** 1946)

Mason, Harold L., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiological Chemistry, Mayo Foundation, Univ. of Minnesota.* (**2,** 1941)

Mason, Herman C., Ph.D. 131 N. Harvey Ave., Oak Park, Ill. *Consulting Bacteriologist and Immunologist, State of Illinois, Dept. of Public Welfare.* (**6,** 1948)

Mason, Howard S., Ph.D. Univ. of Oregon Med. School, 3181 S. W. Sam Jackson Park Rd., Portland 1. *Assoc. Prof.* (**2,** 1949)

Mason, Karl Ernest, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. and Chairman, Dept. of Anatomy.* (**5,** 1941)

Mason, Morton F., Ph.D. Parkland Mem. Hosp., Harry Hines Blvd., Dallas 19, Tex. *Prof., Clin.*

Chemistry, Dept. Internal Medicine, Univ. of Texas Southwestern Med. School. (**2,** 1938)

Mason, Richard P., M.D. 1921 East-West Highway, Silver Spring, Md. (**6,** 1950)

Masoro, Edward J., Ph.D. Tufts Univ. School of Medicine, Dept. of Physiology, 136 Harrison Ave., Boston, Mass. *Assoc. Prof.* (**1,** 1954)

Masson, Georges M. C., Ph.D. Cleveland Clinic Foundation, Research Div., Cleveland, Ohio. *Staff Member.* (**1,** 1944)

Mathews, Albert P., Ph.D. Marine Biological Lab., Woods Hole, Mass. *Carnegie Prof. Emeritus of Biochemistry, Univ. of Cincinnati.* (**1R,** 1898; **2R,** 1906)

Mathews, Martin B., Ph.D. Univ. of Chicago, Dept. of Pediatrics, 920 E. 59th St., Chicago 37, Ill. *Research Assoc.* (**2,** 1954)

Mathies, James C., Ph.D. Baxter Labs., Inc., Morton Grove, Ill. (**2,** 1952)

Mathieson, Don R., M.D. Univ. of Minnesota. Mayo Clinic, Rochester. *Asst. Prof. and Consultant in Clin. Pathology.* (**6,** 1952)

Matson, G. Albin, Ph.D. Minneapolis War Memorial Blood Bank, Inc., 1914 La Salle Ave., Minneapolis, Minn. *Director.* (**6,** 1946)

Matterson, Lloyd D., Ph.D. Univ. of Connecticut, Dept. of Poultry Science, Storrs. *Professor.* (**5,** 1955)

Matthews, Samuel A., Ph.D. Williams College, Williamstown, Mass. *Prof. of Biology.* (**1,** 1948)

Mattis, Paul A., D.Sc. Smith, Kline & French Labs., Philadelphia 1, Pa. *Head of Pharmacology Section.* (**3,** 1946)

Mattox, Vernon Ross, Ph.D. Mayo Clinic, Dept. of Biochemistry, Rochester, Minn. *Asst. Prof.* (**2,** 1954)

Mattson, Fred H., Ph.D. Procter and Gamble Co., Research Div., Cincinnati 31, Ohio. *Research Chemist.* (**5,** 1953)

Maurer, Frank W., Ph.D. 301 Lake Ave., Newton Highlands 61, Mass. (**1,** 1941)

Maurer, Fred D., D.V.M., Ph.D. 114 W. 14th St., Frederick, Md. (**6,** 1950)

Maurer, Paul H., Ph.D. Univ. of Pittsburgh School of Medicine, Dept. of Pathology, Pittsburgh 13, Pa. *Assoc. Prof. of Immunology.* (**6,** 1953)

Mautz, Frederick R., M.D. 10515 Carnegie Ave., Cleveland 6, Ohio. (**1,** 1945)

Maver, Mary E., Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Sr. Biochemist.* (**2,** 1947)

Mavor, James Watt, Ph.D. 8 Gracewood Park, Cambridge, Mass. (**1R,** 1930)

Maxfield, Mary E., Ph.D. Woman's Med. College of Pennsylvania, Dept. of Pharmacology, Philadelphia. *Assoc. Prof.* (**1,** 1947)

Maxfield, Myles, M.D., Ph.D. Massachusetts Inst. of Technology, Cambridge 39. *Asst. Prof. of Biophysics; Asst. Physician, Med. Dept.* (**1,** 1955)

Maxwell, Morton H., M.D. Univ. of California Med. Ctr., Los Angeles. *Asst. Prof. of Medicine.* (**1,** 1955)

May, Charles D., M.D. State Univ. of Iowa, College of Medicine, Dept. of Pediatrics, Iowa City. *Prof. and Chairman of Dept.* (**5,** 1952)

Mayer, Dennis T., Ph.D. Univ. of Missouri, Dept. of Agricultural Chemistry, 211 N. Schweitzer Hall, Columbia. *Professor.* (**2,** 1950)

Mayer, Jean, Sc.D., Ph.D. Harvard School of Public Health, Dept. of Nutrition, 695 Huntington Ave., Boston 15, Mass. *Asst. Prof.* (**1,** 1955; **5,** 1951)

Mayer, Manfred M., Ph.D. Johns Hopkins Univ., School of Hygiene, 615 N. Wolfe St., Baltimore 5, Md. *Assoc. Prof. of Microbiology.* (**6,** 1946)

Mayerson, Hyman S., Ph.D. Tulane Univ. School of Medicine, University Station, New Orleans 18, La. *Prof. and Head of Dept. of Physiology.* (**1,** 1928)

Maynard, Elliott Allen, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Pharmacology and Toxicology.* (**3,** 1950)

Maynard, L. A., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. Emeritus of Nutrition and Biochemistry; Dir., School of Nutrition.* (**2R,** 1930; **5,** 1933)

Maynert, Everett W., Ph.D. Johns Hopkins Med. School, Dept. of Pharmacology, 710 N. Washington St., Baltimore 5, Md. *Fellow in Pharmacology.* (**3,** 1952)

Mazur, Abraham, Ph.D. City College of New York, 139th St. and Convent Ave., New York City 31. *Assoc. Prof. in Dept. of Chemistry.* (**2,** 1944)

McCann, Samuel McD., M.D. Univ. of Pennsylvania School of Medicine, Dept. of Physiology, Philadelphia 4. *Asst. Prof.* (**1,** 1955)

McCann, William S., M.D. Univ. of Rochester School of Medicine, Rochester, N. Y. *The Charles A. Dewey Prof. of Medicine.* (**2,** 1923; **5,** 1933)

McCarrell, Jane D., Ph.D. Hood College, Dept. of Biology, Frederick, Md. *Prof. and Head of Dept.* (**1,** 1942)

McCarty, Maclyn, M.D. 66th St. and York Ave., New York City 21. *Member, Rockefeller Inst. for Med. Research.* (**6,** 1947)

McCawley, Elton Leeman, Ph.D. Univ. of Oregon, School of Medicine, Portland. *Assoc. Prof. of Pharmacology.* (**3,** 1944)

McCay, Clive M., Ph.D. Cornell Univ., Animal Nutrition Lab., Dairy Bldg., Ithaca, N. Y. *Prof. of Nutrition.* (**2,** 1929; **5,** 1933)

McChesney, Evan William, Ph.D. Sterling-Win-

throp Research Inst., Rensselaer, N. Y. *Member, Biological Div.* (**1**, 1944)

McClellan, Walter S., M.D. Univ. of North Carolina Med. School, Chapel Hill. *Lecturer in Physiology.* (**1**, 1931)

McClendon, J. F., Ph.D. Route 1, Box 9, Trooper Rd., Norristown, Pa. *Biochemist, J. Gershon-Cohen Fndn.* (**1R**, 1910; **2R**, 1914; **5R**, 1935)

McClung, L. S., Ph.D. Indiana Univ., Dept. of Bacteriology, Bloomington. *Prof. and Chairman of Dept.* (**6**, 1948)

McCollum, Elmer Verner, Ph.D. Johns Hopkins Univ., Baltimore 18, Md. *Prof. Emeritus of Biochemistry.* (**2R**, 1910; **5**, 1933)

McCollum, Ernestine Becker, M.A. Johns Hopkins Univ. School of Hygiene, Baltimore 5, Md. *Asst. Prof. of Biochemistry.* (**5**, 1938)

McConnell, Kenneth P., Ph.D. U. S. Veterans Administration Hospital, Louisville, Ky. *Principal Scientist, Radioisotope Unit.* (**2**, 1951)

McCouch, Grayson Prevost, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Emeritus Prof. of Physiology.* (**1**, 1925)

McCouch, Margaret Sumwalt, Ph.D. Rose Tree Rd., Media, Pa. (**1**, 1934)

McCoy, Richard H., Ph.D. Univ. of Pittsburgh, School of Medicine, Pittsburgh 13, Pa. *Assoc. Prof. of Biochemistry.* (**2**, 1950; **5**, 1948)

McCrea, Forrest D., Ph.D. 1023 Demerius St., Durham, N. C. *Assoc. Prof. of Physiology and Pharmacology, Duke Univ. School of Medicine.* (**1**, 1929; **3**, 1937)

McCrudden, Francis H., M.D. 19 Stoneleigh Rd., West Newton 65, Mass., (**2R**, 1906)

McCulloch, Warren Sturgis, M.D. Massachusetts Inst. of Technology, Research Lab. of Electronics, Cambridge 39. *Staff Member.* (**1**, 1936)

McCutcheon, F. Harold, Ph.D. Univ. of Pennsylvania, School of Veterinary Medicine, Philadelphia 4. *Prof. of Physiology; Head of Dept. of Physiology and Pharmacology.* (**1**, 1951)

McCutcheon, Morton, M.D. Univ. of Pennsylvania Med. School, Philadelphia. *Emeritus Prof. of Pathology.* (**4**, 1925)

McDonald, Francis Guy, Ph.D. Mead Johnson and Co., Research Lab., 2404 W. Pennsylvania St., Evansville, Ind. *Biochemist.* (**2**, 1936; **5**, 1947)

McDonald, Hugh J., D.Sc. Loyola Univ., Stritch School of Medicine, 706 S. Wolcott Ave., Chicago 12, Ill. *Prof. and Chairman, Dept. Biochemistry.* (**2**, 1954)

McDonald, Roger K., M.D. 10112 Parkwood Terrace, Bethesda 14, Md. (**1**, 1949)

McEllroy, William Swindler, M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Dean; Prof. of Biochemistry.* (**2**, 1919)

McElroy, L. W. Ph.D. Univ. of Alberta, Dept. of Animal Science, Edmonton, Canada. *Prof. of Animal Science.* (**5**, 1944)

McElroy, William D., Ph.D. Johns Hopkins Univ., McCollum-Pratt Inst., 34th and Charles Sts., Baltimore 18, Md. *Dir. and Prof. of Biology.* (**1**, 1945; **2**, 1951)

McFarland, Ross A., Ph.D. Harvard Univ. School of Public Health, Boston, Mass. *Assoc. Prof. of Industrial Hygiene.* (**1**, 1943)

McFarlane, William Douglas, Ph.D. Canadian Breweries, Ltd., Research Div., 307 Fleet St. E., Toronto, Ontario, Canada. *Dir. of Research.* (**2**, 1933)

McGill, Henry C., Jr., M.D. Louisiana State Univ. School of Medicine, New Orleans 12. *Asst. Prof. of Pathology.* (**4**, 1955)

McGilvery, Robert W., Ph.D. Univ. of Wisconsin, Dept. of Physiological Chemistry, Service Memorial Inst., Madison 6. *Assoc. Prof.* (**2**, 1951)

McGinnis, James, Ph.D. State College of Washington, Dept. of Poultry Science, Pullman. *Prof. of Nutrition.* (**5**, 1952)

McGinty, Daniel A., Ph.D. Parke, Davis and Co., Detroit, Mich. *Lab. Dir.* (**1**, 1925)

McGuigan, Hugh Alister, Ph.D., M.D. 2418 Park Pl., Evanston, Ill. *Prof. Emeritus of Pharmacology, Univ. of Illinois College of Medicine.* (**1R**, 1907; **2**, 1906; **3R**, 1913)

McHargue, J. S., Ph.D. Univ. of Kentucky, Dept. of Chemistry, Kentucky Agricultural Exper. Station, Lexington. *Member Emeritus.* (**2R**, 1927)

McHenry, E. W., Ph.D. Univ. of Toronto, School of Hygiene, Toronto, Ontario, Canada. *Prof. of Public Health Nutrition.* (**2**, 1938; **5**, 1935)

McIntire, Floyd C., Ph.D. Abbott Labs., North Chicago, Ill. *Research Biochemist.* (**2**, 1952)

McIntyre, A. R., Ph.D., M.D. Univ. of Nebraska College of Medicine, 42nd and Dewey Ave., Omaha. *Prof. of Physiology and Pharmacology.* (**1**, 1933; **3**, 1938)

McKee, Albert P., M.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. of Bacteriology* (**6**, 1948)

McKee, Clara M. Squibb Inst. for Med. Research, New Brunswick, N. J. *Assoc. in Microbiology.* (**6**, 1941)

McKee, Frank W., M.D. Dept. of Pathology, Univ. of California School of Medicine, Los Angeles 24. *Professor.* (**4**, 1947)

McKee, Ralph Wendell, Ph.D. Univ. of California, Med. Center, Dept. of Physiological Chemistry, Los Angeles 24. *Professor.* (**2**, 1946)

McKennis, Herbert, Jr., Ph.D. Med. College of Virginia, Richmond. *Assoc. Prof. of Research Pharmacology.* (**2**, 1948)

McKibbin, John M., Ph.D. State Univ. of New York Med. Center at Syracuse, Syracuse, N. Y. *Assoc. Prof. of Biochemistry.* (**2**, 1948)

McKinney, Gordon R., Ph.D. West Virginia Univ.

Med. School, Dept. of Pharmacology, Morgantown. *Asst. Prof.* (**3,** 1954)

McLain, Paul L., M.D. Univ. of Pittsburgh Med. School, Pittsburgh, Pa. *Prof. of Physiology and Pharmacology.* (**1,** 1948; **3,** 1940)

McLaren, A. Douglas, Ph.D. Univ. of California College of Agriculture, 108 Hilgard Hall, Berkeley 4. *Assoc. Prof. of Soil Chemistry.* (**2,** 1953)

McLaren, Barbara A., Ph.D. Univ. of Toronto, Dept. of Household Science, Toronto, Canada. *Prof. and Head.* (**5,** 1954)

McLean, Franklin C., Ph.D., M.D. Univ. of Chicago, Chicago 37, Ill. *Prof. Emeritus of Physiology.* (**1,** 1914; **2R,** 1916; **3R,** 1916)

McLean, I. William, Jr., M.D. Parke, Davis & Co., Virus Research Div., Detroit, Mich. *Asst. Dir., Microbiological Research.* (**6,** 1946)

McLean, Richard A., M.A. Smith, Kline & French Labs., 1530 Spring Garden St., Philadelphia, Pa. *Sr. Pharmacologist.* (**3,** 1953)

McLimans, William F., Ph.D. 2224 Tipperary Rd., Kalamazoo, Mich. *Head, Dept. of Bacteriology, Research Div., The Upjohn Co.* (**6,** 1949)

McManus, J. F. A., M.D. Med. College of Alabama, Birmingham. *Prof. and Chairman of Pathology.* (**4,** 1948)

McMaster, Philip D., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**4,** 1924; **6,** 1951)

McMeekin, Thomas L., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia, Pa. *Head of Protein Div.* (**2,** 1935)

McNamara, Bernard P., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Aerosol Br.* (**3,** 1947)

McNaught, James Bernard, M.D. Univ. of Colorado School of Medicine, Denver 20. *Prof. and Head of Dept. of Pathology.* (**4,** 1936)

McNeil, Crichton, M.D. Holy Cross Hospital, Salt Lake City, Utah. *Pathologist and Dir.* (**6,** 1950)

McNelly, W. C., Ph.D. Miami Univ., Oxford, Ohio. *Prof. of Physiology.* (**1,** 1955)

McPhail, Murchie K., Ph.D. Natl. Defense Board, Suffield Exper. Station, Ralston, Alberta, Canada. *Research Scientist.* (**3,** 1941)

McQuarrie, Irvine, Ph.D., M.D. Univ. of Minnesota, Dept. of Pediatrics, Minneapolis. *Professor.* (**1,** 1949; **4,** 1927; **5,** 1933)

McShan, W. H., Ph.D. Univ. of Wisconsin, Zoology Dept., Madison 6. *Prof. of Zoochemistry.* (**2,** 1947)

Mead, James F., Ph.D. 16835 Livorno Drive, Pacific Palisades, Calif. *Chief, Biochemistry Div., Atomic Energy Project; Assoc. Clin. Prof. of Physiological Chemistry.* (**2,** 1952)

Mead, Jere, M.D. Harvard School of Public Health, Physiology Dept., 55 Shattuck St., Boston 15, Mass. *Assoc. Prof.* (**1,** 1952)

Medes, Grace, Ph.D. Lankenau Hospital Research Inst., Philadelphia, Pa. *Sr. Member, Metabolic Chemistry.* (**2R,** 1930)

Medlar, Edgar M., M.D. Biggs Memorial Hospital, Ithaca, N. Y. *Chief Pathologist.* (**4,** 1927)

Meek, Walter J., Ph.D. Sc.D. Univ. of Wisconsin, Madison. *Emeritus Prof. of Physiology; Emeritus Dean of Med. School.* (**1R,** 1908)

Mehl, John W., Ph.D. Univ. of Southern California, 3551 Univ. Ave., Los Angeles. *Prof. of Biochemistry and Nutrition.* (**2,** 1946)

Mehler, Alan H., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Chemist.* (**2,** 1952)

Meier, Rolf, M.D. Bundestrasse 21, Basle, Switzerland. *Prof. of Pathological Physiology; Dir., Biological Research Labs., Ciba Ltd.* (**3,** 1949)

Meiklejohn, Gordon, M.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver 20. *Prof. and Head, Dept. of Medicine.* (**6,** 1948)

Meister, Alton, M.D. Natl. Cancer Inst., Bethesda 14, Md. *Head, Clin. Biochemical Research Sec.* (**2,** 1950)

Meites, Joseph, Ph.D. Michigan State Univ., Dept. of Physiology and Pharmacology, East Lansing. *Professor.* (**1,** 1949; **5,** 1952)

Melampy, Robert M., Ph.D. Iowa State College, 13 Curtiss Hall, Ames. *Prof. of Physiology.* (**1,** 1952)

Melcher, Leo R., M.D., Ph.D. Univ. of California Med. School, San Francisco 22. *Surgeon, PHS* (**6,** 1952)

Melchior, Jacklyn B., Ph.D. Loyola Univ. Med. School, 706 S. Wolcott Ave., Chicago 12, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1953)

Mellon, Ralph R., M.D., D.P.H. 6055 Bunker Hill Dr., Pittsburgh 6, Pa. (**6R,** 1918)

Mellors, Robert C., Ph.D., M.D. Memorial Ctr. for Cancer and Allied Diseases, 444 E. 68th St., New York City 21. *Assoc., Sloan-Kettering Inst.; Asst. Pathologist, Memorial Hosp.* (**2,** 1951; **4,** 1955.)

Melnick, Daniel, Ph.D. The Best Foods, Inc., Research Labs., Bayonne, N. J. *Chief Technologist.* (**2,** 1940; **5,** 1942)

Melnick, Joseph L., Ph.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven 11, Conn. *Prof. of Epidemiology.* (**2,** 1946; **6,** 1948)

Melville, Donald B., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Biochemistry.* (**2,** 1947)

Melville, Kenneth Ivan, M.D. McGill Univ., Montreal, Quebec, Canada. *Prof. and Chairman, Dept. of Pharmacology.* (**3,** 1931)

Mendel, Bruno, M.D. Univ. of Amsterdam, Pharmacotherapeutic Lab., Polderweg 20, Amsterdam, Holland. *Prof. and Head, Dept. of Pharmacology.* (**2,** 1947)

Mendelson, E. S., B.A. R.D. 2, Telford, Pa. *Re-*

search Physiologist, Aero-Med. Equipment Lab., Naval Air Exper. Sta., Philadelphia. (**1,** 1949)

Mendez, Rafael, M.D. Natl. Inst. of Cardiology, Avenida Cuauhtemoc 300, Mexico D.F., Mexico. *Head of Dept. of Pharmacology.* (**3,** 1944)

Mendlowitz, Milton, M.D. 136 E. 64th St., New York City 21. *Assoc. Attending Physician, Mt. Sinai Hosp.* (**1,** 1949)

Meneely, George R., M.D. Thayer VA Hosp., Nashville, Tenn. *Dir., Research Lab. and Radioisotope Unit; Assoc. Prof. of Medicine, Vanderbilt Univ.* (**1,** 1951; **4,** 1946)

Meng, H. C., M.D., Ph.D. Vanderbilt Univ. Med. School, Dept. of Physiology, Nashville 5. *Assoc. Prof.* (**1,** 1950)

Menkin, Valy, M.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Assoc. Prof. of Exptl. Pathology; Head of Exptl. Pathology, Agnes Barr Chase Fndn. for Cancer Research.* (**1,** 1932; **4,** 1932; **6,** 1931)

Menten, Maud L., M.D., Ph.D. 38 Marlboro St., West, Leamington, Ont., Canada. *Retired Prof. of Pathology, Univ. of Pittsburgh.* (**1R,** 1915; **4,** 1927)

Merrifield, Robert B., Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Associate.* (**2,** 1955)

Mertz, Edwin T., Ph.D. Purdue Univ., Dept. of Biochemistry, Lafayette, Ind. *Assoc. Prof.* (**2,** 1950; **5,** 1954)

Mettier, Stacy R., M.D. Univ. of California Hospital, San Francisco. *Prof. of Medicine.* (**4,** 1932)

Mettler, Fred A., Ph.D., M.D. Sc.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Neurology, New York City. *Prof. of Anatomy.* (**1,** 1937)

Meyer, Arthur E., Ph.D. Hunt, Texas. (**1R,** 1948)

Meyer, Curtis E., Ph.D. Upjohn Co., Kalamazoo, Mich. *Sr. Scientist, Nutrition.* (**2,** 1942)

Meyer, Dallas K., Ph.D. 401 Crestland Rd., Columbia, Mo. *Prof. of Physiology, Univ. of Missouri School of Medicine.* (**1,** 1951)

Meyer, Frieda L., Ph.D. Univ. of Alabama, School of Home Economics, University. *Dir., Research Lab. of Human Nutrition.* (**5,** 1949)

Meyer, Karl, M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (**2,** 1934)

Meyer, Karl F., M.D., Ph.D. George W. Hooper Foundation, Univ. of California Med. Center, San Francisco. *Director.* (**4,** 1930; **6,** 1922)

Meyer, Roland K., Ph.D. Univ. of Wisconsin, Birge Hall, Madison 6. *Prof. of Zoology.* (**1,** 1949)

Meyers, Frederick H., M.D. Univ. of California School of Medicine, Dept. of Pharmacology, San Francisco 22. *Asst. Prof.* (**3,** 1955)

Mezey, Kálmán, M.D., Departmento Cientifico del Laboratorio CUP Carrera 13, No. 48-41, Bogota, Colombia, South America. (**3,** 1950)

Michel, Harry O., Ph.D. Med. Labs., Army Chemical Center, Md. *Asst. Chief, Enzyme Chemistry Br.* (**2,** 1949)

Mickelsen, Olaf, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Asst. Chief, Lab. of Biochemistry and Nutrition.* (**2,** 1944)

Mider, George Burroughs, M.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Assoc. Dir. in Charge of Research.* (**4,** 1940)

Mihalyi, Elemer, M.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Chemist.* (**2,** 1954)

Milch, Lawrence J., Ph.D. USAF School of Aviation Medicine, Randolph AFB, Texas. *Chief, Dept. of Pharmacology and Biochemistry.* (**3,** 1954)

Miles, Walter R., Ph.D. Istanbul Univ., Faculty of Letters, Istanbul, Turkey. *Prof. of Exptl. Psychology.* (**1,** 1919)

Milhorat, Ade T., M.D. Cornell Univ. Med. College, New York City 21. *Assoc. Prof. of Medicine (in Psychiatry); Research Assoc., Russell Sage Inst. of Pathology.* (**1,** 1934; **3,** 1937; **5,** 1935)

Militzer, Walter E., Ph.D. Univ. of Nebraska, Lincoln. *Dean, College of Arts & Sci.* (**2,** 1951)

Miller, Augustus Taylor, Jr., Ph.D., M.D. Univ. of North Carolina Med. School, Chapel Hill. *Prof. of Physiology.* (**1,** 1944)

Miller, Benjamin F., M.D. May Inst. for Med. Research of Jewish Hospital Assn., 421 Ridgeway Ave., Cincinnati, Ohio. *Director.* (**2,** 1938)

Miller, Carey D., M.S. Univ. of Hawaii, Honolulu. *Prof. of Foods and Nutrition, Hawaii Agricultural Exper. Station.* (**5,** 1942)

Miller, C. Phillip, M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Medicine.* (**4,** 1925; **6,** 1928)

Miller, Elizabeth C., Ph.D. Univ. of Wisconsin, McArdle Memorial Lab. for Cancer Research, Madison 6. *Asst. Prof. of Oncology.* (**2,** 1951)

Miller, Franklin R., M.D. Snyder Clinic, 103½ E. 9th St., Winfield, Kans. (**4,** 1940)

Miller, Frederick R., M.D. 280 Carlton St., Toronto 2, Canada. (**1R,** 1908)

Miller, Gail L., Ph.D. QM Research and Development Center, Natick, Mass. *Head, Biochemistry.* (**2,** 1949)

Miller, George A., Ph.D. Harvard Univ., Cambridge 38. *Assoc. Prof., Psychology Dept.* (**1,** 1948)

Miller, George H., M.D. American College of Surgeons, 40 E. Erie St., Chicago 11, Ill. *Asst. Dir.* (**3,** 1925)

Miller, James A., Ph.D. Univ. of Wisconsin Med. School, McArdle Mem. Lab. for Cancer Research, Madison 6. *Prof. of Oncology.* (**2,** 1949)

Miller, Leon L., Ph.D., M.D. Univ. of Rochester School of Medicine and Dentistry, 260 Critten-

den Blvd., Rochester 20, N. Y. *Assoc. Prof. of Radiation Biology and Biochemistry.* (**2,** 1947)

Miller, Lila, Ph.D. Univ. of Michigan, Ann Arbor. *Assoc. Prof. of Biological Chemistry.* (**2,** 1946)

Miller, Lloyd C., Ph.D. U. S. Pharmacopeia, 46 Park Ave., New York City 16. *Dir. of Revision.* (**3,** 1938)

Miller, O. Neal, Ph.D. Tulane Univ. School of Medicine, New Orleans, La. *Assoc. Prof. of Biochemistry and Medicine.* (**2,** 1954)

Miller, R. C., Ph.D. Pennsylvania State Univ., University Park. *Prof. of Agricultural and Biological Chemistry.* (**5,** 1935)

Miller, Ruth E., Ph.D. Woman's Med. College of Pennsylvania, Philadelphia 29. *Prof. of Bacteriology.* (**6,** 1954)

Miller, Zelma Baker, Ph.D. Children's Cancer Research Foundation, Children's Med. Center, Boston, Mass. *Biochemist.* (**2,** 1940)

Millican, R. Carl, M.D., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon, PHS.* (**3,** 1951)

Millman, Nathan, M.Sc., Ph.D. 50 Brookside Ave., Apt. 6A, Somerville, N. J. *Dir., Div. of Physiology and Pharmacology, Ortho Research Foundation, Raritan, N. J.* (**1,** 1950)

Mills, Clarence A., Ph.D., M.D. Cincinnati General Hospital, Cincinnati 29. Ohio. *Prof. of Exper. Medicine, Univ. of Cincinnati.* (**1,** 1921; **2,** 1921)

Minard, David, Ph.D., M.D. 5941 Anniston Rd., Bethesda, Md. (**1,** 1950)

Minot, Ann S., Ph.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Biochemistry; Dir., Clin. Chemistry Labs.* (**1,** 1923)

Minz, Bruno, M.D. Laboratoire de Physiologie Generale de la Sorbonne, Paris 5^{e}, France. *Research Prof.* (**3,** 1952)

Mirick, George S., M.D. Johns Hopkins Univ., School of Medicine, Baltimore, Md. *Assoc. Prof. of Medicine.* (**6,** 1950)

Mirsky, Alfred E., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2,** 1941)

Mirsky, I. Arthur, M.D. Univ. of Pittsburgh School of Medicine, Dept. of Clinical Science, O'Hara St., Pittsburgh 13, Pa. *Prof. and Chairman of Dept.* (**1,** 1936)

Mitchell, Harold H., M.D. 9730 Wilshire Blvd. Beverly Hills, Calif. *Assoc. Scientist, Rand Corp.* (**6,** 1943)

Mitchell, Harold H., Ph.D. Univ. of Illinois, Div. of Animal Nutrition, Urbana. *Prof. Emeritus.* (**2R,** 1919; **5,** 1933)

Mitchell, Helen S., Ph.D. Univ. of Massachusetts, Amherst. *Dean of School of Home Economics.* (**5,** 1933)

Mitchell, Herschel K., Ph.D. California Inst. of Technology, Biology Div., Pasadena. *Professor.* (**2,** 1955)

Modell, Walter, M.D. Cornell Univ. Med. College, 1300 York Ave., New York City, *Assoc. Prof. in Pharmacodynamics.* (**3,** 1944)

Moe, Gordon Kenneth, Ph.D., M.D. State Univ. of New York at Syracuse, School of Medicine, Dept. of Physiology, Syracuse. *Prof. and Head of Dept.* (**1,** 1952; **3,** 1944)

Mohn, James F., M.D. Univ. of Buffalo School of Medicine, Dept. of Bacteriology and Immunology, Buffalo 14, N. Y. *Assoc. Prof.* (**6,** 1946)

Molitor, Hans, M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Director.* (**1,** 1933; **3,** 1942)

Molland, Jacob, M.D., Ph.D. Univ. of Oslo, Oslo, Norway. *Prof. and Head, Dept. of Pharmacology.* (**3,** 1948)

Molnar, George W., Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Physiologist.* (**1,** 1949)

Molomut, Norman, Ph.D. Waldemar Med. Research Fndn., Port Washington, L. I., N. Y. *Dir. of Research.* (**6,** 1942)

Mommaerts, Wilfried F. H. M., Ph.D. Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Assoc. Prof.; Established Investigator, Am. Heart Assn.* (**1,** 1955; **2,** 1951)

Monge, Carlos, D.Sc. (Hon.) Inst. of Biology, Andina Univ., Lima, Peru. *Dir., School of Advanced Studies.* (**1H,** 1952)

Monkhouse, Frank C., Ph.D. Univ. of Toronto, Dept. of Physiology, Toronto, Canada. *Asst. Prof.* (**1,** 1955)

Montgomery, Arthur V., Jr., Ph.D. Univ. of Colorado, Dept. of Physiology, Denver 20. *Instructor.* (**1,** 1955)

Montgomery, Hugh, M.D. Univ. of Pennsylvania Hospital, 36th and Spruce Sts., Philadelphia. *Assoc. Prof. of Medicine.* (**1,** 1950)

Moon, Henry D., M.D. Univ. of California Med. School, Div. of Pathology, San Francisco 22. *Assoc. Prof. of Pathology; City Pathologist.* (**4,** 1950)

Moon, Virgil H., M.Sc., M.D. Univ. of Miami, School of Medicine, Coral Gables 34, Fla. *Prof. of Pathology.* (**4,** 1934)

Moore, A. R., Ph.D. 133 Third St., Pacific Grove, Calif. (**1,** 1912)

Moore, Carl Vernon, M.D. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. of Medicine.* (**4,** 1938; **5,** 1941)

Moore, Dan H., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. (**1,** 1948)

Moore, Lane A., Ph.D. U. S. Dept. of Agriculture, Div. of Nutrition and Physiology, Bureau of Dairy Industry, Beltsville, Md. *Head, Section of Dairy Cattle Nutrition.* (**5,** 1940)

Moore, Robert A., M.D., Ph.D. Falk Clinic, Univ. of Pittsburgh, Pittsburgh 13, Pa. (**4,** 1929)

Moore, Robert M., M.D. Univ. of Texas Med. School, Galveston. (**1,** 1932)

Moore, Stanford, Ph.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Member.* (**2,** 1949)

Moorhouse, Victor Henry K., M.D. 32 Amanda St., Orangeville, Ontario, Canada. *Prof. Emeritus of Physiology, Univ. of Manitoba, Winnipeg.* (**1R,** 1912)

Morales, Manuel F., Ph.D. Naval Med. Research Inst., Bethesda 14, Md. *Head, Physical Biochemistry Div.* (**1,** 1950)

Moran, Thomas J., M.D. Univ. of Pittsburgh School of Medicine, Dept. of Pathology, Pittsburgh 13, Pa. *Assoc. Prof.* (**4,** 1955)

More, Robert H., M.Sc., M.D. Queen's Univ., Dept. of Pathology, Kingston, Ont., Canada. *Prof. and Head of Dept.* (**4,** 1949)

Morehouse, Laurence E., Ph.D. Univ. of Southern California, Los Angeles 24. *Professor.* (**1,** 1947)

Morehouse, Margaret G., Ph.D. Univ. of Southern California, School of Medicine, Los Angeles 7. *Assoc. Prof. of Biochemistry.* (**2,** 1952)

Morell, Samuel A., Ph.D. Pabst Labs., Milwaukee, Wisc. *Head, Organic and Fine Chemical Lab.* (**2,** 1954)

Morgan, Agnes Fay, Ph.D. Univ. of California, Berkeley 4. *Prof. Emeritus of Home Economics; Biochemist, Agricultural Exper. Station.* (**2R,** 1929; **5,** 1933)

Morgan, Charles F., Ph.D. Georgetown Univ. School of Medicine, Washington, D. C. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1948; **3,** 1947)

Morgan, Clifford T., Ph.D. Johns Hopkins Univ., Psychology Dept., Baltimore 18, Md. *Professor.* (**1,** 1943)

Morgan, Joseph F., Ph.D. Laboratory of Hygiene, Dept. of Natl. Health and Welfare, 45 Spencer St., Ottawa, Canada. *Research Biochemist.* (**2,** 1953)

Morgulis, Sergius, Ph.D. Univ. of Nebraska College of Medicine, Omaha 5. *Prof and Chairman of Dept. of Biochemistry.* (**1R,** 1914; **2R,** 1916)

Morin, F. A., M.D., Ph.D. Wayne Univ. College of Medicine, Dept. of Anatomy, 1401 Rivard St., Detroit 7, Mich. *Assoc. Prof.* (**1,** 1954)

Morison, Robert S., M.D. Rockefeller Foundation, 49 W. 49th St., New York City 20. *Dir. for Biological and Med. Research.* (**1,** 1938)

Moritz, Alan R., M.D. Western Reserve Univ., Inst. of Pathology, Cleveland, Ohio. *Prof. of Pathology and Dir. of the Institute.* (**4,** 1934)

Morrell, Clarence Allison, Ph.D. Dept. of Natl. Health and Welfare, 35 John St., Ottawa, Ontario, Canada. *Dir., Food and Drug Divisions.* (**3,** 1937)

Morris, Harold P., Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Head, Nutrition and Carcinogenesis Sec., Biochemistry Lab.* (**2,** 1944; **5,** 1943)

Morris, J. Anthony, M.Sc., Ph.D. Army Med. Service Grad. School, Dept. of Virus and Rickettsial Diseases, Army Med. Center, Washington 12, D. C. *Med. Bacteriologist.* (**6,** 1951)

Morris, Lucien E., M.D. Univ. of Washington School of Medicine, Seattle 5. *Prof. of Anesthesiology.* (**3,** 1952)

Morris, Marion C., Ph.D. Natl. Foundation for Infantile Paralysis, 120 Broadway, New York City. *Asst. Dir., Professional Education.* (**6,** 1936)

Morrison, Dempsie B., Ph.D. Univ. of Tennessee College of Medicine, Memphis. *Dir. of Clin. Chemistry; Prof. of Chemistry.* (**2,** 1936)

Morrison, Peter R., Ph.D. Univ. of Wisconsin, Madison 6. *Assoc. Prof. of Zoology and Physiology.* (**1,** 1952; **2,** 1950)

Morse, Minerva, Ph.D. 5525 Kimbark Ave., Chicago, Ill. *Research Assoc., Dept. of Pediatrics, Univ. of Chicago.* (**2,** 1934)

Mortimer, Bernard, Ph.D., M.D. 25 N. Ottawa St., Joliet, Ill. *Silver Cross and St. Joseph's Hosps.* (**1,** 1936)

Morton, John J., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. Emeritus of Surgery.* (**4R,** 1927)

Moses, Campbell, M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Assoc. Prof. of Medicine.* (**1,** 1948)

Moss, W. Glen, Ph.D. Univ. of Miami Med. School, Coral Gables 34, Fla. *Assoc. Prof.* (**1,** 1951)

Motley, Hurley L., Ph.D., M.D. 1212 Shatto St., Los Angeles 17, Calif. *Prof. of Medicine and Dir., Cardio-Respiratory Lab., Univ. of Southern California School of Medicine.* (**1,** 1947)

Moulder, James W., Ph.D. Univ. of Chicago, Dept. of Bacteriology and Parasitology, 5724 Ellis Ave., Chicago 37, Ill. *Assoc. Prof. of Biochemistry, Depts. of Biochemistry, Bacteriology and Parasitology.* (**2,** 1950)

Moulton, C. Robert, Ph.D. 5602 Dorchester Ave., Chicago, Ill. (**5,** 1933)

Mountain, Isabel M., Ph.D. Babies Hospital, 3975 Broadway, New York City 32. (**6,** 1947)

Mountcastle, Vernon B., M.D. Johns Hopkins Univ. Med. School, Dept. of Physiology, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiology.* (**1,** 1949)

Moxon, Alvin L., Ph.D. Ohio Agricultural Experiment Station, Wooster. *Prof. and Assoc. Chairman, Animal Science Dept.; Prof. of Biochemistry.* (**2,** 1944)

Moyer, Arden W., Ph.D. 138 Fremont Ave., Park Ridge, N. J. *Research Biochemist, Lederle Labs., Pearl River, N. Y.* (**6,** 1946)

Moyer, Carl A., M.D. Washington Univ., School of Medicine, Dept. of Surgery, St. Louis 10, Mo. (**1,** 1943)

Moyer, John Henry, III, M.D. Baylor Univ. College of Medicine, 1200 M.D. Anderson Blvd., Texas Med. Center, Houston 5. *Assoc. Prof. of Medicine and Pharmacology.* (**3,** 1951)

Mudd, Stuart, M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Microbiology.* (**1,** 1921; **4,** 1927; **6,** 1927)

Mudge, Gilbert H., M.D., D.M.S. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Prof. of Pharmacology.* (**1,** 1951)

Muehlberger, Clarence W., Ph.D. State Health Dept. Labs., Lansing, Mich. *State Toxicologist.* (**3,** 1928)

Mueller, Gerald C., M.D., Ph.D. Univ. of Wisconsin, McArdle Lab., Madison. *Assoc. Prof.* (**2,** 1952)

Muirhead, E. E. Univ. of Texas Southwestern Med. School, Dept. of Pathology, Dallas. *Prof. and Chairman of Dept.; Dir. of Labs., Parkland Mem. Hosp.* (**1,** 1953; **4,** 1952)

Mukerji, B., D.Sc. Central Drug Research Inst., Lucknow, India. *Director.* (**3,** 1938)

Mulford, Dwight J., Ph.D. Kansas Univ. Med. School, Dept. of Biochemistry, Lawrence. *Assoc. Prof.* (**2,** 1948)

Mulinos, M. G., M.D., Ph.D. New York Med. College, Flower and Fifth Ave. Hospitals, Fifth Ave. and 105th St., New York City 29. *Assoc. Prof. of Pharmacology and Physiology.* (**3,** 1931)

Mull, James W., Ph.D. 1870 Grove Ave., Quincy, Ill. *Assoc., Quincy Specialties Co.* (**2,** 1937)

Müller, Otto H., Dr. rer. nat. State Univ. of New York, Upstate Med. Center, Dept. of Physiology, Syracuse 10. *Assoc. Prof.* (**1,** 1947)

Muller, Robert H., M.D. 36 Glen Ridge Pkwy., Montclair, N. J. *Internist, Microbiologist.* (**6,** 1950)

Mulligan, Richard M., M.D. Univ. of Colorado School of Medicine, 4200 East 9th Ave., Denver. *Prof. of Pathology.* (**4,** 1947)

Mullin, F. J., Ph.D. Shimer College, Mount Carroll, Ill. *President.* (**1,** 1937)

Mullins, L. J., Ph.D. Purdue Univ., Biophysical Lab., Lafayette, Ind. *Assoc. Prof. of Biophysics.* (**1,** 1952)

Munoz, Joaquin, Ph.D. Sharp & Dohme, Inc., Div. of Merck, Inc., West Point, Pa. *Research Assoc.* (**6,** 1951)

Munsell, Hazel E., Ph.D. Natl. Cathedral School for Girls, Washington, D. C. *Instr. in Chemistry and Gen. Science.* (**5,** 1933)

Munson, Paul L., Ph.D. Harvard School of Dental Medicine, 188 Longwood Ave., Boston 15, Mass. *Assoc. Prof. of Pharmacology.* (**2,** 1950; **3,** 1954)

Muntwyler, Edward, Ph.D. State Univ. Med. Center at New York, 350 Henry St., Brooklyn 2, N. Y. *Prof. of Biochemistry.* (**2,** 1931)

Muntz, John A., Ph.D. Albany Med. College, Dept. of Biochemistry, Albany 8, N. Y. *Professor.* (**2,** 1948)

Murlin, John R., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. Emeritus of Physiology and Dir. Emeritus of Dept. of Vital Economics.* (**1R,** 1906; **2R,** 1908; **5R,** 1933)

Murphy, George E., M.D. Cornell Univ. Med. College, New York City. *Assoc. Prof. of Pathology.* (**4,** 1954)

Murphy, Quillian R., M.D., Ph.D. Univ. of Wisconsin Med. School, Dept. of Physiology, Madison 6. *Asst. Prof.* (**1,** 1949)

Murray, Everitt G. D., M.A. McGill Univ., Montreal, Quebec, Canada. *Prof. and Head of Dept. of Bacteriology and Immunology (Retired); Visiting Research Prof., Univ. of Western Ontario.* (**6,** 1933)

Murray, F. Joseph, Ph.D. The Wm. S. Merrell Co., Lockland Station, Cincinnati, Ohio. *Head, Dept. of Microbiology.* (**6,** 1950)

Musacchia, X. J., Ph.D. St. Louis Univ. Biological Labs., 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof.* (**1,** 1952)

Mushett, Charles W., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Pathology.* (**4,** 1948)

Muus, Jytte, Mag. Scient. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (**2,** 1946)

Myers, J. D., M.D. Univ. of Pittsburgh School of Medicine, Dept. of Medicine, Pittsburgh 13, Pa. *Professor.* (**1,** 1951)

Myers, William G., Ph.D., M.D. 2724 Wexford Rd., Columbus 21, Ohio. *Julius Stone Research Prof. of Medical Biophysics, Ohio State Univ.* (**1,** 1952)

Myrvik, Quentin N., Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Asst. Prof. of Microbiology.* (**6,** 1954)

Nachmansohn, David, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (**1,** 1940; **2,** 1951)

Nadel, Eli M., Natl. Insts. of Health, Bethesda 14, Md. *Pathologist.* (**4,** 1953)

Nadler, J. Ernest, M.D., Med.D.Sc. 80-16 Lefferts Blvd., Kew Gardens 15, N. Y. *Attending Consultant, USVA Hospital, Bronx.* (**3,** 1940)

Nahum, Louis N., M.D. Yale Med. School, New Haven, Conn. *Lecturer.* (**1,** 1934)

Najjar, Victor A., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assoc. Prof. of Pediatrics.* (**2,** 1946)

Nash, Thomas P., Jr., Ph.D. 874 Union Ave., Memphis, Tenn. *Dean, School of Biological*

Sciences, Univ. of Tennessee College of Medicine. (**2,** 1923)

Nason, Alvin, Ph.D. Johns Hopkins Univ., McCollum-Pratt Inst., Baltimore 18, Md. *Assoc. Prof.* (**2,** 1953)

Nasset, Edmund S., Ph.D. Univ. of Rochester, School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Prof. of Physiology.* (**1,** 1932; **5,** 1940)

Nastuk, William L., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Asst. Prof. of Physiology.* (**1,** 1949)

Natelson, Samuel, Ph.D. Rockford Memorial Hospital, 507 Chestnut St., Rockford, Ill. *Chairman, Dept. of Biochemistry.* (**2,** 1950)

Necheles, Heinrich, M.D., Ph.D. Michael Reese Hospital, Chicago, Ill. *Dir. of Gastrointestinal Research.* (**1,** 1929)

Neff, William D., Ph.D. Univ. of Chicago, Dept. of Psychology, Faculty Exchange, Chicago 37, Ill. *Professor.* (**1,** 1950)

Neilands, John B., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley. *Asst. Prof. of Biochemistry.* (**2,** 1953)

Neill, James M., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Bacteriology and Immunology.* (**6,** 1930)

Neilson, Charles Hugh, Ph.D., M.D. Humboldt Bldg., St. Louis, Mo. *Prof. of Medicine, St. Louis Univ. Med. School.* (**2,** 1906)

Nelson, Arthur A., M.D., Ph.D. 1714 Corwin Dr., Silver Spring, Md. *Med. Officer (Pathology), Food & Drug Admin., Div. of Pharmacology.* (**4,** 1942)

Nelson, Carl T., M.D. 630 W. 168th St., New York City 32. *Prof. of Dermatology, Columbia Univ.* (**6,** 1943)

Nelson, E. M., Ph.D. Food and Drug Admin., Dept. of Health, Education and Welfare, Washington 25, D. C. *Chief, Div. of Nutrition.* (**2,** 1927; **5,** 1933)

Nelson, Erwin E., Ph.D., M.D. St. Louis Univ., School of Medicine, 1402 S. Grand Blvd., St. Louis, Mo. *Prof. and Dir. of Pharmacology.* (**3,** 1924)

Nelson, John B., Ph.D. Rockefeller Inst. for Med. Research, New York City. *Assoc. Member.* (**4,** 1934)

Nelson, John M., Ph.D. 39 Claremont Ave., New York City 27. *Prof. Emeritus of Organic Chemistry, Columbia Univ.* (**2R,** 1923)

Nelson, Marjorie M., Ph.D. Univ. of California, Inst. of Exper. Biology, Berkeley. *Asst. Research Biochemist.* (**5,** 1950)

Nelson, Norton, Ph.D. New York Univ. Med. Ctr., 550 First Ave., New York City 16. *Prof. of Industrial Medicine.* (**2,** 1946)

Nelson, P. Mabel, Ph.D. Iowa State College, Ames. *Prof. of Foods and Nutrition.* (**5R,** 1934)

Nelson, Tell, M.D. 1415 Kalakaua Ave., Honolulu 14, T. H. *Practicing Physician.* (**6,** 1938)

Nelson, Walter L., Ph.D. Cornell Univ. Dept. of Biochemistry, Ithaca, N. Y. *Prof. of Biochemistry.* (**5,** 1951)

Nelson, Warren O., Ph.D. Univ. of Iowa School of Medicine, Iowa City. *Prof. of Anatomy; serving as Med. Dir., Population Council, Rockefeller Inst., New York City.* (**1,** 1937)

Neter, Erwin, M.D. Children's Hospital, 219 Bryant St., Buffalo, N. Y. *Dir., Dept. of Bacteriology.* (**6,** 1937)

Nettleship, Anderson, M.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. and Head of Dept. of Pathology.* (**4,** 1942)

Neuberg, Carl, Ph.D., M.D. New York Med. College, Fifth Ave. at 106th St., New York City 29. (**2R,** 1944)

Neuman, William F., Ph.D., Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Pharmacology.* (**2,** 1949; **3,** 1952)

Neumann, Charles G., M.D. 2 Schuyler St., New Rochelle, N. Y. *Resident Surgeon, New York Hospital; Assoc. Prof of Clin. Surgery, New York Univ. Post-Grad. Med. School.* (**1,** 1944)

Neurath, Hans, Ph.D. Univ. of Washington School of Medicine, Dept. of Biochemistry, Seattle 5. *Prof. and Exec. Officer of Dept.* (**2,** 1940; **6,** 1944)

Neuwirth, Isaac, Ph.D. 209 E. 23rd St., New York City 10. *Prof. of Pharmacology, New York Univ. College of Dentistry.* (**2,** 1924; **3,** 1931)

Newman, Elliot V., M.D., Vanderbilt Univ. Hospital, Nashville, Tenn. *Prof. of Exper. Medicine.* (**1,** 1948)

Newman, Henry W., M.D. Stanford Med. School, Clay and Webster Sts., San Francisco 15, Calif. *Assoc. Prof. of Medicine.* (**3,** 1949)

Nice, Leonard B., Ph.D. 5725 S. Harper Ave., Chicago 37, Ill. *Prof. Emeritus of Physiology, Chicago Med. School.* (**1,** 1921)

Nichol, Charles A., Ph.D. Yale Univ. School of Medicine, Dept. of Pharmacology, 333 Cedar St., New Haven, Conn. *Asst. Prof.* (**2,** 1954)

Nicholas, John S., Ph.D. Yale Univ., Osborn Zoological Lab., New Haven, Conn. *Sterling Prof. of Biology.* (**1,** 1927)

Nichols, John M., Ph.D. Med. College of Virginia, Dept. of Pathology, Richmond. (**1,** 1951)

Nicholson, Hayden C., M.D. Hosp. Ccl. of Greater New York, 220 E. 42nd St., New York City 17, *Exec. Dir.* (**1,** 1932)

Nickerson, John L., Ph.D. Columbia Univ., 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1,** 1945)

Nickerson, Mark, Ph.D., M.D. Univ. of Manitoba Med. School, Bannatyne and Emily, Winnipeg, Manitoba, Canada. *Prof. of Pharmacology and Med. Research.* (**1,** 1951; **3,** 1947)

Nicoll, Paul A., Ph.D. Indiana Univ., Bloomington. *Prof. of Physiology.* (**1,** 1945)

Niemann, Carl G., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Organic Chemistry.* (**2,** 1940)

Nims, Leslie F., Ph.D. Brookhaven Natl. Lab., Biology Dept., Upton, Long Island, N. Y. *Sr. Physiologist.* (**1,** 1940)

Noble, Robert Laing, M.D., Ph.D. Univ. of Western Ontario, Dept. of Med. Research, London, Ontario, Canada. (**1,** 1941)

Noda, Lafayette, Ph.D. Univ. of Wisconsin, Enzyme Inst., Madison 5. *Asst. Prof.* (**2,** 1955)

Noell, Werner K., M.D. Roswell Park Mem. Inst., Buffalo 3, N. Y. *Prin. Research Scientist.* (**1,** 1950)

Noonan, Thomas R., M.D. Univ. of Rochester, Dept. of Radiation Biology, Rochester 20, N. Y. *Assoc. Prof.* (**1,** 1955)

Nord, F. F., D.Sc. Fordham Univ., New York City. *Prof. of Organic Chemistry and Enzymology.* (**2,** 1940)

Norris, L. C., Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Nutrition.* (**2,** 1939; **5,** 1934)

North, William C., M.D., Ph.D. Northwestern Univ. Med. School, Chicago 11, Ill. *Asst. Prof. of Pharmacology.* (**3,** 1955)

Northrop, J. H., Ph.D., Sc.D. Univ. of California, Berkeley 4. *Member of Rockefeller Inst.* (**2,** 1938)

Northup, David W., Ph.D. West Virginia Univ. Med. School, Morgantown. *Prof. of Physiology.* (**1,** 1936)

Norton, Stata, Ph.D. Wellcome Research Labs., Tuckahoe, N. Y. *Pharmacologist.* (**3,** 1955)

Nothman, Martin M., M.D. New England Center Hosp., Harrison Ave. and Bennett St., Boston 11, Mass., *Asst. Clin. Prof. of Internal Medicine.* (**3,** 1954)

Novelli, G. David, Ph.D. Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Assoc. Prof. of Microbiology.* (**2,** 1951)

Novikoff, Alex B., Ph.D. Waldemar Med. Research Fndn., 16 Sintsink Drive, East, Port Washington, N. Y. (**2,** 1952)

Novy, F. G., M.D., Sc.D. 721 Forest Ave., Ann Arbor, Mich. *Dean Emeritus of Med. School and Prof. Emeritus of Bacteriology, Univ. of Michigan.* (**1R,** 1901; **2R,** 1906; **4R,** prior to 1919; **4H, 6H**)

Nowinski, W. W., Ph.D. Univ. of Texas School of Medicine, Galveston. *Assoc. Prof. of Biochemistry; Dir., Tissue Metabolism Research Lab.* (**1,** 1948)

Nungester, Walter James, Ph.D., M.D. Univ. of Michigan, Ann. Arbor. *Prof. and Chairman of Dept. of Bacteriology.* (**6,** 1949)

Nyboer, Jan, Sc.D., M.D. Harper Hosp., 3825 Brush, Detroit 1, Mich. (**1,** 1951)

Nyc, Joseph Frank, Ph.D. 14357 Miranda St., Van Nuys, Calif. *Asst. Prof. of Physiological Chemistry, Univ. of California School of Medicine, Los Angeles.* (**2,** 1952)

Oberst, Fred W., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Gassing Branch.* (**2,** 1936; **3,** 1949)

Ochoa, Severo, M.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1942)

O'Dell, Boyd L., Ph.D. Univ. of Missouri, 105 Schweitzer Hall, Columbia. *Prof. of Agricultural Chemistry.* (**2,** 1952; **5,** 1953)

Oester, Y. T., Ph.D., M.D. Loyola Univ. Stritch School of Medicine, 706 S. Wolcott, Chicago 12, Ill. *Assoc. Prof.; Acting Chairman.* (**3,** 1954)

Ogden, Eric. Ohio State Univ. College of Medicine, Columbus 10. *Prof. of Physiology.* (**1,** 1941)

Oginsky, Evelyn L., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Research Assoc.* (**2,** 1954)

Ogle, Kenneth N., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant in Sec. on Biophysical Research and Research Consultant in Sec. on Ophthalmology; Prof. of Physiological Optics, Univ. of Minnesota.* (**1,** 1953)

O'Hare, James P., M.D. 520 Commonwealth Ave., Boston, Mass. *Physician, Peter Bent Brigham Hospital; Emeritus Lecturer in Medicine, Harvard Med. School.* (**4R,** 1927)

Ohler, Edwin Allen, Ph.D. Temple Univ. School of Medicine, Dept. of Physiology, 3400 N. Broad St., Philadelphia 40, Pa. *Assoc. Prof.* (**1,** 1954)

Ohlson, Margaret A., Ph.D. Michigan State College, Dept. of Foods and Nutrition, East Lansing. *Prof. and Head of Dept. of Foods and Nutrition.* (**5,** 1945)

Okey, Ruth, Ph.D. Univ. of California, Dept. of Home Economics, Berkeley 4. *Prof. of Nutrition; Biochemist, Agric. Exper. Station.* (**2,** 1922; **5,** 1933)

Olcott, Harold S., Ph.D. Univ. of California, Dept. of Food Technology, Berkeley 4. *Prof. of Marine Food Technology.* (**2,** 1935)

Oldham, Helen, Ph.D. U. S. Dept. of Agriculture Research Center, Room 301 North Bldg., Beltsville, Md. *Nutrition Specialist.* (**5,** 1946)

Oleson, J. J., Ph.D. American Cyanamid Co., Research Div., Pearl River, N. Y. *Exptl. Therapeutics Research Sec.* (**2,** 1950)

Olitsky, Peter K., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Emeritus Member.* (**6R,** 1917)

Oliver, Jean Redman, M.D. 7 Essex Rd., Summit, N. J. *Distinguished Service Prof. Emeritus of Pathology, New York State Univ. Med. College.* (**1,** 1924; **4,** 1924)

Oliver, Wade W., M.D. Rockefeller Foundation,

New York City. *Assoc. Dir. of Div. of Med. Sciences.* (**4,** 1925)

Olmsted, J. M. D., Ph.D. Univ. of California, Berkeley. *Prof. Emeritus of Physiology.* (**1R,** 1920)

Olsen, Norman S., Ph.D. Thayer Veterans Admin. Hospital, Research Lab., Nashville 5, Tenn. *Chief, Biochemistry Div.; Assoc. Prof. of Biochemistry, Vanderbilt Univ.* (**1,** 1948; **2,** 1949)

Olson, Byron J., Ph.D., M.D. National Insts. of Health, Bethesda, Md. *Chief, Sec. of Bacteriology and Mycology.* (**6,** 1948)

Olson, Carl, Jr., D.V.M., Ph.D. Univ. of Nebraska, Lincoln. *Prof. and Chairman of Dept. of Animal Pathology and Hygiene.* (**4,** 1937)

Olson, Oscar E., Ph.D. 629 13th Ave., Brookings, So. Dak. *Head, Station Biochemistry, Agricultural Exper. Sta., So. Dak. State College.* (**2,** 1953)

Olson, Robert E., Ph.D., M.D. Univ. of Pittsburgh, Grad. School of Public Health, Dept. of Biochemistry and Nutrition, Pittsburgh 13, Pa. *Prof. and Head of Dept.* (**2,** 1951; **5,** 1952)

Olson, Rodney A., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Physiologist.* (**1,** 1953)

Olson, William H., M.D. Indiana State Prison, P. O. Box 41, Michigan City. *Physician-in-Charge.* (**1,** 1951)

Oncley, J. L., D.Sc., Ph.D. Harvard Med. School, Boston 15, Mass. *Prof. of Physical Chemistry,* (**2,** 1955)

Opdyke, David F., Ph.D. Merck Inst. for Therapeutic Research, Dept. of Physiology, Rahway, N. J. *Head of Dept.* (**1,** 1945)

Opie, Eugene L., M.D., Sc.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. (**1R,** 1906; **4R,** 1913; **6R,** 1923)

Oppenheimer, Enid Tribe, 124 E. 61st. St., New York City. *Instr. in Physiology, Columbia Univ.* (**1,** 1932)

Oppenheimer, Ernst, M.D. 199 Greenwood Way, Mill Valley, Calif. (**3,** 1944)

Oppenheimer, Morton Joseph, Ed.M., M.D. 3400 N. Broad St., Philadelphia, Pa. *Prof. of Physiology, Temple Univ. School of Medicine.* (**1,** 1942)

Opsahl, Jeanette Clara, Ph.D., M.D. Yale Univ., School of Medicine, Dept. of Physiological Chemistry, New Haven, Conn. *Research Fellow (Clin.).* (**2,** 1952)

Orbeli, L. A. Academy of Sciences of the USSR, Moscow, USSR. (**1H,** 1946)

Orbison, James L., M.D. Western Reserve Univ., Cleveland 6, Ohio. *Assoc. Prof. of Pathology.* (**4,** 1955)

Orcutt, James A., Ph.D. Riker Labs., P.O. Box 3157, Terminal Annex, Los Angeles 54, Calif. (**3,** 1952)

Orkin, Louis R., M.D. Albert Einstein College of Medicine, Dept. of Anesthesia, New York City. *Prof. and Chairman of Dept.* (**3,** 1955)

Orloff, Jack, M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda, Md. *Research Assoc.* (**1,** 1953)

Ormsby, Andrew A., Ph.D. Univ. of Texas Med. Branch, Dept. of Biochemistry and Nutrition, Galveston. *Prof. and Chairman of Dept.* (**2,** 1954)

Orten, Aline Underhill, Ph.D. Wayne Univ. College of Medicine, Detroit 7, Mich. *Research Assoc., Dept. of Physiological Chemistry.* (**5,** 1946)

Orten, James M., Ph.D. Wayne Univ. College of Medicine, Detroit 7, Mich. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1936; **5,** 1937)

Orth, O. Sidney, Ph.D., M.D. Univ. of Wisconsin, Dept. of Anesthesiology, University Hospitals, 1300 University Ave., Madison 6. *Prof. and Chairman of Dept.* (**1,** 1942; **3,** 1944)

Oser, Bernard L., Ph.D. Food Research Labs., Inc., 48–14 33rd St., Long Island City 1, N. Y. *Director.* (**5,** 1945)

Osler, Abraham G., Ph.D. Johns Hopkins Univ., Dept. of Microbiology, 615 N. Wolfe St., Baltimore, Md. *Asst. Prof.* (**6,** 1949)

Oster, Robert H., Ph.D. Univ. of Maryland School of Dentistry, Baltimore. *Prof. of Physiology.* (**1,** 1938)

Osterberg, Arnold E., Ph.D. Abbott Labs., Med. Dept., N. Chicago, Ill. *Clinical Investigator.* (**2,** 1933)

Osterhout, Marian I., Ph.D. 450 East 63rd St., New York City. (**1,** 1927)

Osterhout, W. J. V., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member Emeritus.* (**1,** 1910)

Otis, Arthur B., Ph.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assoc. Prof. of Physiology and Surgery.* (**1,** 1946)

Ott, Walther H., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Poultry Nutrition.* (**5,** 1949)

Oudin, J., M. D. Institut Pasteur, 28 rue du Dr. Roux, Paris 15, France. *Head of Labs.* (**6,** 1954)

Overman, John R., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Assistant.* (**6,** 1954)

Overman, Richard R., Ph.D. Univ. of Tennessee College of Medicine, Divisions of Physiology and Medicine, Memphis. *Professor; Dir., Clin. Physiology, Inst. of Clin. Investigation.* (**1,** 1946)

Owen, Charles A., Jr., M.D., Ph.D. Mayo Clinic, Univ. of Minnesota, Rochester. *Consultant in Clinical Pathology.* (**1,** 1953; **4,** 1951)

Owen, Ray D., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Biology.* (**6,** 1955)

Owen, Seward E., Ph.D. 418 S. 20th Ave., Maywood, Ill. *Bacteriologist, Veterans Administration Hospital, Hines, Ill.* (**1,** 1938)

Pace, Donald M., Ph.D. Univ. of Nebraska, Dept. of Physiology, Lincoln. *Prof. and Chairman of Dept.* (**1,** 1944)

Pace, Nello, Ph.D. Univ. of California, Berkeley 4. *Assoc. Prof. of Physiology.* (**1,** 1947)

Pack, George T., M.D. 139 E. 36th St., New York City 16. *Prof. of Clinical Surgery, N. Y. Med. College; Attending Surgeon, Memorial Hospital.* (**1,** 1924)

Packchanian, Ardzroony, Ph.D. Univ. of Texas School of Medicine, Galveston. *Prof. of Bacteriology and Parasitology; Dir. of Lab. of Microbiology.* (**6,** 1943)

Page, Edouard, Ph.D. Univ. of Montreal, Faculty of Sciences, Montreal, Que., Canada. *Prof. and Head, Dept. of Biology.* (**1,** 1947)

Page, Ernest W., M.D. Univ. of California Hospital, Dept. of Obstetrics and Gynecology, San Francisco 22. *Professor.* (**1,** 1947)

Page, Irvine H., M.D. Cleveland Clinic Foundation, 2040 E. 93rd St., Cleveland 6, Ohio. *Dir. of Research.* (**1,** 1937; **2,** 1932)

Page, Robert G., M.D. Dept. of Medicine, Univ. of Chicago, Chicago 37, Ill. *Asst. Prof. of Medicine.* (**3,** 1951)

Painter-Marcus, Elizabeth E., Ph.D. 438 Longcommon Rd., Riverside, Ill. (**1,** 1941)

Pait, Charles F., M.D. Los Angeles City Health Dept., Los Angeles 12, Calif. *Dir. of Labs.* (**6,** 1953)

Palmer, John W., Ph.D. Hyland Labs., 4501 Colorado Blvd., Los Angeles 39, Calif. (**6,** 1949)

P'An, S. Y., M.D. Chas. Pfizer and Co., Inc., Dept. of Pharmacology, 11 Bartlett St., Brooklyn 6, N. Y. *Head, Dept. of Pharmacology.* (**3,** 1941)

Pangborn, Mary C., Ph.D. New York State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany, N. Y. *Assoc. Biochemist.* (**2,** 1941)

Papageorge, Evangeline, Ph.D. Emory Univ. Dept. of Biochemistry, Emory University, Georgia. *Assoc. Prof.* (**2,** 1950)

Pappenheimer, A. M., Jr., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Prof. of Microbiology.* (**2,** 1941; **6,** 1938)

Pappenheimer, John R., Ph.D. Harvard Med. School, Boston, Mass. *Prof. of Physiology; Career Investigator, Am. Heart Assn.* (**1,** 1946)

Papper, E. M., M.D. Presbyterian Hospital, 622 W. 168th St., New York City. *Dir., Anesthesiology Service; Prof. of Anesthesiology, Columbia Univ. College of Physicians and Surgeons.* (**3,** 1949)

Pardee, Arthur B., Ph.D. Univ. of California, Virus Lab., Berkeley 4. *Asst. Prof.* (**2,** 1954)

Parfentjev, Ivan A., Sc.D. Yale Univ. School of Medicine, New Haven 11, Conn. *Research Assoc.* (**6,** 1955)

Park, Charles R., M.D. Vanderbilt Univ. School of Medicine, Dept. of Physiology, Nashville 5, Tenn. *Prof. and Head of Dept.* (**2,** 1955)

Park, Edwards A., M.D. Johns Hopkins Hospital, Baltimore, Md. *Prof. Emeritus of Pediatrics, Johns Hopkins Univ.* (**4,** 1923)

Park, James T., Ph.D. Walter Reed Army Med. Center Grad. School, Washington, D. C. *Biochemist,* (**2,** 1954)

Parker, George H., Sc.D. Harvard Univ., Museum of Comparative Zoology, Cambridge, Mass. *Prof. Emeritus of Zoology.* (**1R,** 1909)

Parker, Robert F., M.D. Western Reserve Univ., 2109 Adelbert Rd., Cleveland, Ohio. *Prof. of Microbiology; Assoc. Prof. of Medicine.* (**4,** 1942; **6,** 1935)

Parkins, William M., Ph.D. Univ. of Pennsylvania School of Medicine, Harrison Dept. of Research Surgery, Philadelphia 4. *Asst. Prof. of Surgical Research.* (**1,** 1939)

Parmer, Leo G., Ph.D., M.D. U.S. Food and Drug Admin., 201 Varick St., New York City 14. *Med. Officer.* (**3,** 1951)

Parpart, Arthur K., Ph.D. Princeton Univ., Guyot Hall, Princeton, N. J. *Prof. of Physiology.* (**1,** 1937)

Parr, Leland W., Ph.D. George Washington Univ. School of Medicine, 1335 H St. N.W., Washington, D. C. *Prof. of Bacteriology.* (**4,** 1940)

Parrack, Horace O., Ph.D. Wright-Patterson Air Force Base, Aero-Med. Lab., Dayton, Ohio. *Coordinator, USAF Program Noise and Vibration Control.* (**1,** 1948)

Parrish, D. B., Ph.D. Kansas State College, Dept. of Chemistry, Manhattan. *Assoc. Prof.* (**5,** 1951)

Parsons, Helen T., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Home Economics.* (**2R,** 1929; **5R,** 1933)

Parsons, Robert J., M.D. Highland Alameda County Hospital, 2701 14th Ave., Oakland, Calif. *Pathologist; Dir. of Labs.* (**4,** 1939)

Paschkis, Karl E., M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Assoc. Prof. of Medicine and Assoc. Prof. of Physiology.* (**1,** 1942)

Patrick, Homer, Ph.D. Univ. of Tennessee-Atomic Energy Commission Agric. Research Program, Oak Ridge, Tenn. *Program Dir.* (**5,** 1953)

Patt, Harvey M., Ph.D. Argonne Natl. Lab., P.O. Box. 299, Lemont, Ill. *Sr. Physiologist.* (**1,** 1948)

Patterson, John L., Jr., M.D. Dept. of Medicine, Med. College of Virginia, Richmond 19. *Assoc. Prof. of Medicine.* (**1,** 1951)

Patterson, Thos. L., Ph.D., Sc.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Research Prof. of Physiology; Prof. of Oro-Physiology and Dir. of Dental Research, Univ. of Detroit School of Dentistry.* (**1,** 1920)

Patterson, Wilbur I., Ph.D. USDA Agric. Research Service, Eastern Utilization Research

Br., Washington 25, D. C. *Chief, Basic Chemistry Unit, Dairy Products Sec.* (**2,** 1948)

Patton, H. D., Ph.D., M.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Assoc. Prof.* (**1,** 1947)

Patton, Mary Brown, Ph.D. Ohio State Univ., School of Home Economics, Columbus 10. *Professor.* (**5,** 1953)

Paul, John R., M.D. Yale Univ. Med. School, 333 Cedar St., New Haven, Conn. *Prof. of Preventive Medicine.* (**4,** 1927; **6,** 1937)

Paul, Mary F., Ph.D. Eaton Labs., Inc., Norwich, N. Y. *Chief, Div. of Biology, The Norwich Pharmacal Co. and Eaton Labs., Inc.* (**2,** 1953)

Payne, Richard W., M.D. Univ. of Oklahoma School of Medicine, 801 Northeast 13th St., Oklahoma City. *Assoc. Prof. of Pharmacology.* (**3,** 1954)

Pazur, John H., Ph.D. Univ. of Nebraska, Dept. of Biochemistry and Nutrition, Lincoln 3. *Assoc. Prof.* (**2,** 1954)

Peacock, Samuel M., Jr., M.D. Tulane Univ. School of Medicine, Dept. of Psychiatry and Neurology, New Orleans, La. *Asst. Prof. of Exptl. Neurology.* (**1,** 1955)

Pearce, John Musser, M.D. 525 E. 68th St., New York City 21. *Prof. of Pathology, Cornell Univ. Med. College; Attending Pathologist, New York Hospital.* (**4,** 1942)

Pearce, Louise, M.D. Trevenna Farm, Belle Mead, N. J. (**4,** 1925)

Pearcy, Frank, Ph.D., M.D. 2606 Oak Lawn Ave., Dallas, Tex. (**1,** 1928)

Pearlman, William H., Ph.D. Guy's Hosp. Med. School, Dept. of Biochemistry and Chemistry, London S. E. 1, England. (**2,** 1946)

Pearse, Herman E., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Surgery.* (**4,** 1932)

Pearson, Bjarne, M.D. Detroit Inst. of Cancer Research, 4811 John R St., Detroit, Mich. *Research Assoc.* (**4,** 1955)

Pearson, Harold E., M.D., M.P.H. Los Angeles County Hospital, Los Angeles 33. *Head Med. Microbiologist; Prof. Public Health, Univ. of Southern California Med. School.* (**6,** 1948)

Pearson, Olof H., M.D. Memorial Hospital, 444 E. 68th St., New York City 21. *Assoc. Prof. of Medicine, Sloan-Kettering Div., Cornell Univ. Med. College.* (**2,** 1953)

Pearson, P. B., Ph.D. U. S. Atomic Energy Commission, Div. of Biology and Medicine, Washington 25, D. C. *Chief of Biology Branch.* (**2,** 1944; **5,** 1940)

Pease, Marshall C., Jr., M.D. Branchville Rd., R.F.D. 4, Ridgefield, Conn. *Historian of American Acad. of Pediatrics.* (**6,** 1920)

Peck, Harold M., M.D. Sharp and Dohme, Div. of Merck & Co., Inc., West Point, Pa. *Dir. of Research in Pathology.* (**3,** 1953)

Pecora, Louis J., Ph.D. 1014 Broadway, Cincinnati 2, Ohio. *Chief, Physiology Lab., PHS Occupational Health Program.* (**1,** 1952)

Peiss, Clarence N., Ph.D. Dept. of Physiology, Loyola Univ. School of Medicine, 706 S. Wolcott, Chicago, Ill. *Asst. Prof.* (**1,** 1952)

Pelikan, Edward W., M.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Asst. Prof. of Pharmacology.* (**3,** 1952)

Penfield, Wilder G., M.D., D.Sc. McGill Univ., Montreal, Quebec, Canada. *Dir., Montreal Neurological Inst.* (**1,** 1932)

Penick, George D., M.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Asst. Prof. of Pathology.* (**4,** 1955)

Penneys, Raymond, M.D. Univ. of Pennsylvania Hospital, Peripheral Vascular Sec., Philadelphia 4. *Instr. in Medicine, Univ. of Pennsylvania School of Medicine.* (**1,** 1951)

Penrod, Kenneth E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Assoc. Prof. of Physiology.* (**1,** 1946)

Peoples, S. Anderson, M.D. Univ. of California, School of Veterinary Medicine, Dept. of Pharmacology, Davis. *Prof. of Pharmacology and Toxicology.* (**3,** 1937)

Perkins, John F., Jr., M.D. 5621 S. Kenwood Ave., Chicago 37, Ill. *Assoc. Prof. of Physiology, Univ. of Chicago.* (**1,** 1950)

Perkinson, Jesse Dean, Jr., Ph.D. Univ. of Tennessee, Dept. of Biochemistry, 894 Union Ave., Memphis 3. *Assoc. Prof.* (**2,** 1954)

Perl, Edward R., M.D. State Univ. of New York, Upstate Med. Ctr., Dept. of Physiology, Syracuse 10. *Asst. Prof.* (**1,** 1955)

Perlman, Ely, M.D. 118 Crescent Lane, Roslyn Heights, L. I., N. Y. *Research Assoc., Mt. Sinai Hosp.; Chief, Allergy Clinic, L. I. Jewish Hosp.* (**6,** 1944)

Perlmann, Gertrude Erika, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Assoc.* (**2,** 1951)

Perlmutt, Joseph H., Ph.D. Univ. of North Carolina School of Medicine, Dept. of Physiology, Chapel Hill. *Asst. Prof.* (**1,** 1955)

Permar, Howard H., M.D. Pathologic Labs., Mercy Hospital, Pittsburgh, Pa. *Pathologist.* (**4,** 1925)

Peskin, James C., Ph.D. Univ. of Rochester, Biology Dept., Rochester, N. Y. *Assoc. Prof.* (**1,** 1955)

Petermann, Mary L., Ph.D. 444 E. 68th St., New York City 21. *Assoc. Prof. of Biochemistry, Sloan-Kettering Div., Cornell Univ. Med. College.* (**2,** 1947)

Peters, John P., M.D. 789 Howard Ave., New

Haven 11, Conn. *Prof. of Medicine, Yale Univ. Med. School.* (**2R,** 1922)

Peters, Lawrence, Ph.D., M.D. Univ. of Kansas Med. School, Dept. of Pharmacology, Kansas City 12. *Prof. and Head of Dept.* (**3,** 1946)

Petersen, William E., Ph.D. Univ. of Minnesota Div. of Dairy Husbandry, St. Paul 1. *Professor.* (**1,** 1947)

Peterson, Elbert A., Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Chemist.* (**2,** 1954)

Peterson, Lysle H., M.D. Univ. of Pennsylvania Med. School, Dept. of Physiology, Philadelphia 4. *Assoc. Prof. of Physiology and Surg. Physiology; Established Investigator, Am. Heart Assn.* (**1,** 1950)

Peterson, Ruth D., Ph.D. Univ. of Oregon Med. School, Biochemistry Dept., Portland 1. *Asst. Prof.* (**2,** 1955)

Peterson, William H., Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. Emeritus of Biochemistry.* (**2R,** 1919; **5R,** 1936)

Pett, L. B., M.D., Ph.D. Dept. of Natl. Health and Welfare, Ottawa, Ontario, Canada. *Chief, Nutrition Div.* (**5R,** 1945)

Pfaffmann, Carl, Ph.D. Brown Univ., Providence 12, R. I. *Prof. of Psychology.* (**1,** 1953)

Pfeiffer, Carl C., Ph.D., M.D. Dept. of Pharmacology, Emory Univ. School of Medicine, Emory University, Ga. *Prof. and Chairman of Dept.* (**3,** 1938)

Pfiffner, Joseph J., Ph.D. Parke, Davis & Co., Research Labs., Detroit 32, Mich. *Biochemist (Research).* (**1,** 1931; **2,** 1931; **5,** 1946)

Phatak, Nilkanth M., Ph.D. Univ. of Oregon, School of Dentistry, Portland. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1941)

Philips, Frederick S., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th Street, New York City 21. *Assoc. Member.* (**3,** 1947)

Phillips, Paul H., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Biochemistry.* (**2,** 1940; **5,** 1938)

Phillips, Robert Allan, M.D. U. S. Naval Med. Research Unit #2, APO 63, San Francisco, Calif. *Commanding Officer.* (**1,** 1938)

Pick, Ernst Peter, M.D. 19 E. 98th St., New York City. (**3,** 1940)

Pick, Ruth, M.D. Michael Reese Hosp., Med. Research Inst., Chicago 16, Ill. *Research Assoc., Cardiovascular Dept.* (**1,** 1954)

Piel, Carolyn Forman, M.D. 2574 Green St., San Francisco 23, Calif. (**4,** 1950)

Pierce, Harold B., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1929; **5,** 1933)

Pierce, Harold Fisher, Ph.D., M.D. 583 Park Rd., West Hartford 7, Conn. *Med. Dir., State Welfare Dept., Hartford.* (**1,** 1928)

Pierce, Ira H., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Assoc. Prof. of Pharmacology.* (**3R,** 1933)

Pierce, John G., Ph.D. Univ. of California Med. Center, Dept. of Physiological Chemistry, Los Angeles 24. *Assoc. Prof.* (**2,** 1954)

Pigman, W. Ward, Ph.D. Univ. of Alabama, Med.-Dent. Schools, Biochemistry Dept., Birmingham. *Assoc. Prof.* (**2,** 1950)

Pillemer, Louis, Ph.D. Western Reserve Univ., Inst. of Pathology, 2085 Adelbert Rd., Cleveland, Ohio. *Prof. of Biochemistry.* (**2,** 1950; **6,** 1942)

Pincus, Gregory, Sc.D. Worcester Foundation for Exper. Biology, 222 Maple Ave., Shrewsbury, Mass. *Dir. of Labs.* (**1,** 1935)

Pincus, I. J., D.Sc. Jefferson Med. College, Philadelphia, Pa. *Assoc. Prof. of Physiology.* (**1,** 1948)

Pinkerton, Henry, M.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Dir., Dept. of Pathology.* (**4,** 1931)

Pinkston, James O., Ph.D. State Univ. Med. Center at New York City, College of Medicine, Brooklyn. *Asst. Dean and Lecturer in Physiology.* (**1,** 1936; **3,** 1939)

Pinson, Ernest A., Ph.D. 1109 Quincy St. S. E., Albuquerque, N. Mex. (**1,** 1943)

Pirani, Conrad L., M.D. Univ. of Illinois, College of Medicine, Dept. of Pathology, 1853 W. Polk St., Chicago 12. *Professor.* (**4,** 1951)

Pisanty O., José, M.D. Univ. of Guadalajara, Dept. of Physiology and Pharmacology, Guadalajara, Jalisco, Mexico. *Head of Dept.* (**1,** 1955)

Pittinger, Charles B., M.D. State Univ. of Iowa, Iowa City. *Asst. Prof. of Pharmacology and Anesthesiology.* (**3,** 1954)

Pittman, Martha S., Ph.D. 1909 Poyntz, Manhattan, Kan. (**5,** 1933)

Pitts, Grover C., Ph.D. Univ. of Virginia, School of Medicine, Dept. of Physiology, Charlottesville. *Asst. Prof.* (**1,** 1951)

Pitts, Robert F., Ph.D., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. and Head of Dept. of Physiology and Biophysics.* (**1,** 1934)

Platner, Wesley S., Ph.D. Univ. of Missouri School of Medicine, Columbia. *Prof. of Physiology.* (**1,** 1951)

Plaut, Gerhard W. E., Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Assoc. Prof.* (**2,** 1952)

Plummer, Albert J., M.D., Ph.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Dir., Pharmacological Research.* (**3,** 1950)

Pollack, Abou D., Baltimore City Hosps., Baltimore, Md. (**4,** 1953)

Pollack, Herbert, Ph.D., M.D. 70 E. 77th St., New York City 21. *Assoc. Physician for Metabolic Diseases, Mt. Sinai Hosp.; Assoc. Prof. of*

Clin. Medicine, New York Univ. Post-Grad. School of Medicine. (**1,** 1933; **5,** 1935)

Pollard, Morris, D.V.M., Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Preventive Medicine; Dir., Virus Research Lab.* (**4,** 1954)

Pomerat, Charles Marc, Ph.D. Univ. of Texas Med. School, Galveston. *Prof. of Cytology.* (**1,** 1944)

Pommerenke, W. T., Ph.D., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Obstetrics and Gynecology.* (**1,** 1947)

Pond, Samuel E., Ph.D. Hillyer College, Div. of Natural Sciences and Mathematics, Hartford, Conn. *Chairman.* (**1,** 1924)

Ponder, Eric, M.D., Sc.D. Nassau Hospital, Mineola, Long Island, N. Y. *Dir., Research Labs.* (**1,** 1931)

Pope, Alfred, M.D. McLean Hospital, Waverley 79, Mass. *Assoc. in Neuropathology, McLean Hospital; Asst. Prof. of Neuropathology, Harvard Med. School.* (**2,** 1953)

Poppen, John R., M.D. 9000 Amestoy Ave., Northridge, Calif. *Capt. (MC) USN Retired; Consultant, Douglas Aircraft Co.* (**1,** 1948)

Popper, Hans, Ph.D., M.D. 629 S. Wood St., Chicago 12, Ill. *Dir. of Dept. of Pathology and Scientific Dir. of Hektoen Inst. for Med. Research, Cook Co. Hosp.* (**4,** 1942)

Porter, Curt C., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Research Assoc.* (**2,** 1954)

Porter, Eugene L., Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Physiology.* (**1,** 1913)

Porter, J. R., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. of Bacteriology, Chairman of Dept.* (**6,** 1950)

Porter, John W., Ph.D. Enzyme Inst., Univ. of Wisconsin, Madison. (**2,** 1953)

Porter, Thelma, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. and Chairman, Committee on Home Economics.* (**5,** 1944)

Post, Robert Lickely, M.D. 6310 Vanderbilt Med. School, Nashville 5, Tenn. *Asst. Prof. of Physiology.* (**1,** 1950)

Posternak, Jean M., M.D. Univ. of Geneva Med. School, Geneva, Switzerland. *Prof. of Physiology.* (**1,** 1951)

Poth, Edgar J., M.D., Ph.D. Univ. of Texas Med. School, Galveston. *Prof. of Surgery.* (**1,** 1946)

Potter, Van R., Ph.D. Univ. of Wisconsin Med. School, McArdle Memorial Lab., Madison. *Prof. of Oncology.* (**2,** 1941)

Powell, Horace M., Sc.D. 5565 Washington Blvd., Indianapolis, Ind. *Research Advisor, Eli Lilly & Co.* (**6,** 1934)

Power, Marschelle H., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiological Chemistry, Mayo Foundation, Univ. of Minnesota.* (**2,** 1932)

Pratt, Frederick H., M.D. 105 Hundreds Rd., Wellesley Hills, Mass. *Prof. Emeritus of Physiology, Boston Univ. Med. School.* (**1R,** 1919)

Pratt, Joseph H., M.D., Sc.D. New England Med. Center, 25 Bennet St., Boston, Mass. *Physician-in-Chief, Joseph H. Pratt Diagnostic Hospital; Prof. Emeritus of Medicine, Tufts Med. School.* (**1,** 1910; **3R,** 1910; **4,** 1927)

Preisler, Paul W., Ph.D., Washington Univ. School of Medicine, 660 S. Kingshighway Blvd., St. Louis 10, Mo. *Research Assoc., Biochemistry.* (**2,** 1931)

Pressman, David, Ph.D. Roswell Park Memorial Inst., 663 N. Oak St., Buffalo 3, N. Y. *Dir. of Research in Biochemistry.* (**2,** 1955; **6,** 1949)

Pribram, Karl H., M.D. Inst. of Living, Burlingame Research Lab., Hartford, Conn. *Research Assoc.; Dir. of Lab. of Neurophysiology; Research Asst., Yale Univ., Depts. of Physiology and Psychology.* (**1,** 1951)

Price, Henry L., M.D. Univ. of Pennsylvania, Dept. of Anesthesiology, Philadelphia 4. *Asst. Prof.* (**3,** 1954)

Price, Vincent E., M.D. 4615 Edgefield Rd., Bethesda 14, Md. *Head, Enzymes and Metabolism Sec., Lab. of Biochemistry, Natl. Cancer Inst.* (**2,** 1953)

Prinzmetal, Myron, M.D. 810 N. Rexford Dr., Beverly Hills, Calif. *Sr. Attending Physician and Dir. of Cardiac Research Program, Cedars of Lebanon Hospital, Los Angeles; Assoc. Clin. Prof. of Medicine, UCLA.* (**3,** 1941)

Proctor, Donald F., M.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Prof. of Anesthesiology.* (**1,** 1955)

Prosser, C. Ladd, Ph.D. Univ. of Illinois, Dept. of Physiology, Urbana. *Professor.* (**1,** 1935)

Puck, Theodore T., Ph.D. Univ. of Colorado Med. School, Dept. of Biophysics, Denver. *Prof. and Head of Dept.* (**6,** 1955)

Puestow, Charles B., M.D., Ph.D. 25 E. Washington St., Chicago 2, Ill. *Clin. Prof. of Surgery, Univ. of Illinois College of Medicine.* (**1,** 1934)

Pugsley, L. I., Ph.D. Dept. of Natl. Health and Welfare, Food and Drug Lab., Ottawa, Ontario, Canada. *Asst. Dir., Scientific Services.* (**2,** 1937)

Putnam, Frank W., Ph.D. Univ. of Florida College of Medicine, Dept. of Physiological Chemistry, Gainesville, Fla. *Prof. and Chairman.* (**2,** 1947)

Quackenbush, Forrest W., Ph.D. R-2, Brookston, Ind. *Prof. and Head of Dept. of Biochemistry, Purdue Univ.* (**2,** 1946)

Quaife, Mary L., Ph.D. Wettsteinallee 147, Basel, Switzerland, % Dr. H. R. Bolliger. *Sr. Research Chemist.* (**2,** 1948; **5,** 1951)

Quastel, J. H., D.Sc., Ph.D. Research Inst., Montreal General Hosp., 3619 University St. Montreal, Quebec, Canada. *Dir., Research*

Inst.; Prof. of Biochemistry, McGill Univ. (**2,** 1948)

Queen, Frank B., M.D. Univ. of Oregon School of Medicine, 3181 S.W. Sam Jackson Park Rd., Portland. *Prof. of Pathology.* (**4,** 1941)

Quick, Armand J., M.D., Ph.D. Marquette Med. School, 561 N. 15th St., Milwaukee 3, Wis. *Prof. and Dir. of Dept. of Biochemistry.* (**2,** 1932; **3,** 1937)

Quigley, J. P., Ph.D. Univ. of Tennessee, Memphis 3. *Prof. and Chief of Div. of Physiology.* (**1,** 1929; **3,** 1945)

Quilligan, J. J., Jr., M.D. College of Med. Evangelists, 1200 N. State St., Los Angeles 33, Calif. *Assoc. Prof. of Pediatrics; Dir. of Virus Lab.* (**6,** 1950)

Quimby, Freeman Henry, Ph.D. Office of Naval Research, Code 441, Navy Dept., Washington 25, D. C. *Head, Physiology Branch.* (**1,** 1950)

Quinn, Edmond John, Ph.D. 106 N. Lee Ave., Rockville Center, Long Island, N. Y. (**2R,** 1927; **5R,** 1933).

Raab, Wilhelm, M.D. Univ. of Vermont College of Medicine, Div. of Exper. Medicine, Burlington. *Professor.* (**1,** 1949)

Raben, Maurice S., M.D. Tufts Univ. Med. School, Boston, Mass. *Asst. Prof. of Medicine; Physician, New England Ctr. Hosp.* (**1,** 1955)

Rabinovitz, Marco, Ph.D. Univ. of California School of Medicine, Dept. of Physiological Chemistry, Berkeley 4. *Asst. Research Biochemist.* (**2,** 1955)

Rabinowitz, Jesse C., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Biochemist,* (**2,** 1954)

Rachele, Julian R., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Rackemann, Francis M., M.D. 263 Beacon St., Boston, Mass. *Bd. of Consultation, Massachusetts General Hospital.* (**6,** 1923)

Racker, Efraim, M.D. Public Health Research Inst., New York City 9. *Chief, Div. of Nutrition and Physiology.* (**2,** 1948)

Radomski, Jack L., Ph.D. School of Medicine, Univ. of Miami, Coral Gables 34, Fla. *Assoc. Prof. of Pharmacology.* (**3,** 1953)

Rafelson, Max E., Jr., Ph.D. Univ. of Illinois College of Medicine, Dept. of Biological Chemistry, Chicago 12, Ill. *Asst. Prof.* (**2,** 1955)

Raffel, Sidney, Sc.D., M.D. Stanford Univ., Dept. of Med. Microbiology, Stanford, Calif. *Exec. Head.* (**6,** 1938)

Ragan, Charles, M.D. Columbia Univ., College of Physicians and Surgeons, New York City 32. *Assoc. Prof. of Medicine.* (**1,** 1952)

Rahn, Hermann, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. Prof. of Physiology.* (**1,** 1944)

Rake, Geoffrey W., M.B. Univ. of Pennsyvania, Wistar Inst. of Anatomy and Biology, Philadelphia 4. *Research Prof. of Microbiology in Medicine.* (**6,** 1939)

Rakestraw, Norris W., Ph.D. Univ. of California, Scripps Inst. of Oceanography, La Jolla. *Prof. of Chemistry.* (**2,** 1925)

Rakieten, Nathan, Ph.D. South Shore Analytical and Research Lab., Box 47, Islip, L. I., N. Y. *Pharmacologist.* (**1,** 1941)

Rall, J. E., M.D., Ph.D. Sloan-Kettering Inst., New York 21, N. Y. *Assoc. Member.* (**1,** 1955)

Ralli, Elaine P., M.D. 550 First Ave., New York City. *Assoc. Prof. of Medicine, New York Univ. College of Medicine.* (**1,** 1934; **5,** 1933)

Ralston, H. J., Ph.D. College of Physicians and Surgeons, 344 14th St., San Francisco 3, Calif. *Prof. of Physiology.* (**1,** 1947)

Ramey, Estelle R., Ph.D. Univ. of Chicago, Dept. of Physiology, Chicago, Ill. *Asst. Prof.* (**1,** 1954)

Rammelkamp, Charles H., Jr., M.D. Western Reserve Univ., Dept. of Preventive Medicine, Cleveland Ohio. *Prof. of Medicine; Assoc. Prof. of Preventive Medicine.* (**6,** 1943)

Ramsey, Robert Weberg, Ph.D. Med. College of Virginia, Richmond. *Prof. of Physiology.* (**1,** 1939)

Randall, Charles C., M.D. Vanderbilt Univ. School of Medicine, Dept. of Microbiology, Nashville 5, Tenn. *Prof. of Microbiology.* (**4,** 1952)

Randall, Lowell O., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Sr. Pharmacologist.* (**2,** 1939; **3,** 1950)

Randall, Walter C., Ph.D. Dept. of Physiology, Loyola Univ., Stritch School of Medicine, Chicago 12, Ill. (**1,** 1943)

Randall, William A., Ph.D. Food and Drug Admin., Washington 25, D. C. *Chief, Research Branch, Div. of Antibiotics.* (**6,** 1946)

Rane, Leo, Ph.D. 571 Hammond St., Chestnut Hill 67, Mass. (**6,** 1942)

Ranney, Robert E., Ph.D. G. D. Searle & Co., Div. of Biological Research, Chicago 80, Ill. *Physiologist; Research Investigator.* (**1,** 1955)

Rantz, Lowell A., M.D. Stanford Univ. School of Medicine, San Francisco 15, Calif. *Professor of Medicine.* (**3,** 1946)

Rapoport, S., M.D., Ph.D. Humboldt Univ., Physiologisch-chemisches Inst., Berlin N. 4, Germany. *Director.* (**2,** 1941)

Rapport, David, M.D. 136 Harrison Ave., Boston, Mass. *Prof. of Physiology, Tufts University School of Medicine.* (**1,** 1922)

Rapport, Maurice M., Ph.D. Sloan-Kettering Inst. for Cancer Research, N. Y. State Dept. of Health, 444 E. 68th St., New York City 21. *Head, Sec. of Immunology; Assoc. Research Scientist.* (**2,** 1950)

Rashkind, William J., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Asst. Prof. of Physiology.* **(1,** 1952)

Raska, Sigwin, Ph.D. Stritch School of Medicine, Loyola Univ., 706 S. Wolcott Ave., Chicago 12, Ill. **(1,** 1947)

Rasmussen, A. F., Jr. Ph.D., M.D. Univ. of California at Los Angeles, Med. School, Los Angeles 24. *Prof. of Infectious Diseases (Virology).* **(6,** 1949)

Rasmussen, A. T., Ph.D. 4636 Indianola Way, La Cañada, Calif. *Prof. Emeritus of Anatomy, Univ. of Minnesota.* **(1R,** 1919)

Ratcliffe, Herbert L., D.Sc. Univ. of Pennsylvania, Dept. of Pathology, Philadelphia 4. *Prof. of Comparative Pathology; Pathologist, Zoological Society of Philadelphia.* **(4,** 1950)

Rather, Lelland J., M.D. Stanford Univ. School of Medicine, Dept. of Pathology, 2398 Sacramento St., San Francisco, Calif. *Assoc. Prof.* **(4,** 1951)

Ratner, Bret, M.D. 50 E. 78th St., New York City. *Prof. of Pediatrics and Immunology, New York Med. College.* **(4,** 1940; **6,** 1928)

Ratner, Sarah, Ph.D. Public Health Research Inst. of the City of New York, Foot of E. 15th St., New York City 9. *Assoc. Member, Div. of Nutrition and Physiology.* **(2,** 1944)

Rau, G. Carl, Ph.D. Univ. of Kansas City, Dept. of Pharmacology, Kansas City, Mo. **(1,** 1951)

Raulston, B. O., M.D. 200 S. Hudson Ave., Los Angeles, Calif. *Prof. of Medicine and Dean Emeritus, Univ. of Southern California School of Medicine.* **(3R,** 1942)

Ravdin, I. S., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *John Rhea Barton Prof. of Surgery; Dir., Harrison Dept. of Surgical Research.* **(1,** 1930, **4,** 1930)

Rawson, Rulon W., M.D. Cornell Univ. Med. College, New York City 21. *Prof. of Medicine.* **(1,** 1947)

Raymond, Albert L., Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Vice Pres. in charge of Research and Development.* **(2,** 1932)

Reback, John F., M.S., Sc.D. Microbiology Lab., Sinai Hosp., Baltimore 5, Md. *Microbiologist, Johns Hopkins Univ. School of Hygiene and Public Health.* **(6,** 1943)

Rebuck, John W., M.D., Ph.D. Henry Ford Hospital, Dept. of Labs., Detroit 2, Mich. *Assoc. in Pathology.* **(4,** 1950)

Redfield, Alfred C., Ph.D. Woods Hole, Mass. *Prof. of Physiology, Harvard Univ.; Sr. Oceanographer, Woods Hole Oceanographic Inst.* **(1,** 1919)

Reed, Carlos I., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Physiology.* **(1R,** 1923)

Reed, Emerson A., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Assoc. Prof. of Physiology.* **(1,** 1948)

Reed, Lester J., Ph.D. Univ. of Texas, Austin 12. *Assoc. Prof. of Chemistry.* **(2,** 1952)

Reese, John D., M.D. Orange Co. Gen. Hosp., Orange, Calif. *Pathologist.* **(4,** 1949)

Rehm, Warren S., Jr., Ph.D., M.D. Univ. of Louisville School of Medicine, Louisville, Ky. *Prof. of Physiology.* **(1,** 1945)

Reich, Hans, Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 5. *Research Assoc.* **(2,** 1955)

Reid, James C., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Sr. Chemist.* **(2,** 1952)

Reid, Marion Adelaide, Ph.D. Douglass College, New Brunswick, N. J. *Assoc. Prof., Dept. of Zoology.* **(1,** 1941)

Reid, Mary E., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Biologist.* **(5,** 1947)

Reilly, Joseph, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Asst. Prof. of Pharmacology.* **(3,** 1952)

Reimann, Hobart A., M.D. 125 Old Gulph Rd., Wynnewood, Pa. **(4,** 1933)

Reimann, Stanley P., M.D., Sc.D. 703 W. Phil-Ellena St., Mount Airy, Philadelphia 19, Pa. *Dir. of Research Inst. of Lankenau Hospital.* **(1,** 1921; **4,** 1924)

Reinecke, Roger M., Ph.D., M.D. Univ. of Puerto Rico, School of Medicine, San Juan. *Prof. of Physiology; Head of Dept. of Physiology.* **(1,** 1947)

Reineke, E. P., Ph.D. Michigan State College, Dept. of Physiology and Pharmacology, East Lansing. *Professor.* **(1,** 1950)

Reiner, John M., Ph.D. Simon Baruch Research Labs., Saratoga Spa, Saratoga Springs, N. Y. *Research Dir.* **(1,** 1947)

Reiner, Laszlo, M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, Inst. of Cancer Research, New York City 32. *Research Assoc.* **(2,** 1942; **6,** 1933)

Reinhard, John F., Ph.D. Baxter Labs., Morton Grove, Ill. *Head, Dept. of Pharmacology.* **(3,** 1952)

Reinhardt, William O., M.D. Univ. of California, Berkeley 4. *Prof. of Anatomy.* **(1,** 1950)

Reinhold, John G., Ph.D. Univ. of Pennsylvania Hospital, 711 Maloney Bldg., 36th and Spruce Sts., Philadelphia 4, Pa. *Prof. of Biochemistry in Medicine.* **(2,** 1936)

Reiser, Raymond, Ph.D. Texas Agricultural Exper. Station, Dept. of Biochemistry and Nutrition, College Station. *Assoc. Prof., A & M College of Texas.* **(2,** 1953)

Reisner, Edward H., M.D. St. Luke's Hosp., 401 W. 118th St., New York City 27. *Assoc. Prof. of*

Clin. Medicine, New York Univ. Postgrad. Med. School. (**5,** 1954)

Reithel, Francis J., Ph.D. Univ. of Oregon, Dept. of Chemistry, Eugene. *Assoc. Prof. of Chemistry.* (**2,** 1953)

Rekers, Paul E., M.D. Inst. for Med. Research, Cedars of Lebanon Hospital, 4751 Fountain Ave., Los Angeles 29, Calif. *Research Assoc.* (**4,** 1950)

Remington, John W., Ph.D. Med. College of Georgia, Augusta. *Professor.* (**1,** 1943)

Remington, Roe E., Ph.D., D.Sc. 1227 Highland Ave., Hendersonville, N. C. (**2R,** 1930; **5R,** 1934)

Renfrew, Alice G., Ph.D. Mellon Inst. of Industrial Research, Univ. of Pittsburgh, Pittsburgh, Pa. *Sr. Fellow, Medicinal Chemistry.* (**2,** 1939)

Renkin, Eugene M., Ph.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Sr. Asst. Scientist.* (**1,** 1954)

Rennick, Barbara R., M.D. State Univ. of New York, Upstate Med. Ctr., Syracuse 10. *Asst. Prof. of Physiology.* (**3,** 1952)

Reynolds, May S., Ph.D. Univ. of Wisconsin, School of Home Economics, Dept. of Foods and Nutrition, Madison. *Prof.* (**5,** 1951)

Reynolds, Monica, Ph.D. Univ. of Pennsylvania School of Veterinary Medicine, Philadelphia 4. *Asst. Prof. of Physiology.* (**1,** 1954)

Reynolds, Orr E., Ph.D. Office of Naval Research, Washington, D. C. *Dir., Biological Sciences Div.* (**1,** 1948)

Reynolds, Samuel R. M., Ph.D., Sc.D. 4028 Deepwood Rd., Baltimore 18, Md. *Staff Member and Physiologist, Carnegie Inst. of Washington Dept. of Embryology.* (**1,** 1932)

Reznikoff, Paul, M.D. New York Hospital, 525 E. 68th St., New York City. *Prof. of Clin. Medicine, Cornell Univ. Med. College.* (**1,** 1927)

Rhines, Ruth, Ph.D., M.D. Univ. of Chicago, Dept. of Anatomy, Chicago 37, Ill. *Assoc. Prof.* (**1,** 1950)

Rhoads, Cornelius Packard, M.D. Memorial Center, 410 E. 68th St., New York City. *Dir.; Prof. of Pathology, Cornell Univ. Med. College.* (**4,** 1930)

Rhoads, Jonathan E., M.D., D.Sc. 131 W. Walnut Lane, Philadelphia 44, Pa. *Prof. of Surgery, Univ. of Pa. Med. School; Chief, Surgical Div. II, Univ. Hospital.* (**1,** 1946)

Rice, Christine E., Ph.D. Animal Diseases Research Inst., Canadian Dept. of Agriculture, Hull, Quebec, Canada. *Agricultural Research Officer.* (**6,** 1938)

Rice, Eldon E., Ph.D. 9152 West 124th St., Palos Park, Ill. *Research Chemist, Swift and Co.* (**5,** 1951)

Rice, Harold V., Ph.D. Univ. of Alberta, Edmonton, Alberta, Canada. *Prof. of Physiology.* (**1,** 1948)

Rice, James C., Ph.D. Univ. of Mississippi, P. O. Box 475, University. *Prof. of Pharmacology; Chairman of Dept.* (**3,** 1941)

Rich, Arnold Rice, M.D. Johns Hopkins Hospital, Baltimore, Md. *Baxley Prof. of Pathology, Johns Hopkins Univ.* (**4,** 1924)

Richards, Alfred N., Ph.D., M.D. 737 Rugby Rd., Bryn Mawr, Pa. *Prof. Emeritus of Pharmacology, Univ. of Pennsylvania.* (**1R,** 1900; **2R,** 1906; **3R,** 1909)

Richards, Dickinson W., M.D. First Med. Div., Bellevue Hospital, 462 First Ave., New York City 16. *Dir. and Visiting Physician; Lambert Prof. of Medicine, Columbia Univ.* (**1,** 1953)

Richards, Oscar W., Ph.D. American Optical Co., Research Center, Southbridge, Mass. *Research Supervisor for Biology.* (**1,** 1934)

Richards, R. K., M.D. Abbott Labs., Research Div., North Chicago, Ill. *Assoc. Dir. of Research; Professorial Lecturer in Pharmacology, Northwestern Univ. Med. School.* (**1,** 1938; **3,** 1947)

Richardson, Alfred W., Ph.D. St. Louis Univ. Med. School, St. Louis, Mo. *Assoc. Prof. of Physiology.* (**1,** 1952)

Richardson, Arthur P., M.D. Emory Univ. School of Medicine, Emory University, Ga. *Dir. of Basic Sciences; Prof. of Pharmacology.* (**3,** 1939)

Richardson, James A., Ph.D. Med. College of South Carolina, Dept. of Pharmacology, Charleston 16. *Assoc. Prof.* (**3,** 1951)

Richardson, Luther R., Ph.D. *Texas A & M College,* College Station, Tex. *Prof. of Biochemistry and Nutrition.* (**5,** 1942)

Richert, Dan A., Ph.D. State Univ. of New York, Upstate Med. Ctr., Dept. of Biochemistry, 766 Irving Ave., Syracuse 10, N. Y. *Assoc. Prof.* (**2,** 1951)

Richter, Curt P., Ph.D. Phipps Psychiatric Clinic, Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Psycho-biology, Johns Hopkins Univ.* (**1,** 1924)

Richter, Goetz W., M.D. Cornell Univ. Med. College, Dept. of Pathology, New York City 21. *Asst. Prof.* (**4,** 1954)

Richter, Maurice N., M.D. 303 E. 20th St., New York City. *Prof. of Pathology, Bellevue Med. Center; Dir. Dept. of Pathology, Univ. Hospital.* (**4,** 1931)

Ricketts, Henry T., M.D. Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Prof. of Medicine.* (**1,** 1940)

Riddle, Oscar, Ph.D. Route 4, Plant City, Fla. (**1R,** 1919)

Ridley, Roger W., M.D. 5914 Birch St., Riverside, Calif. (**3,** 1953)

Rieders, Fredric, Ph.D. Jefferson Med. College,

1025 Walnut St., Philadelphia 7, Pa. *Asst. Prof. of Pharmacology* (**3,** 1954)

Riegel, Byron, Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Dir. of Chemical Research.* (**2,** 1942)

Riegel, Cecilia, Ph.D. Lankenau Hospital, Biochemistry Lab., City Line and Lancaster Ave., Pa. *Biochemist.* (**2,** 1938)

Rieser, Peter, Ph.D. Univ. of Pennsylvania, Zoological Lab., Philadelphia 4. *Research Assoc.* (**1,** 1954)

Rigdon, R. H., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Pathology; Dir., Lab. of Experimental Pathology.* (**4,** 1941)

Riggs, Douglas S., M.D. Univ. of Buffalo Med. School, Buffalo 14, N. Y. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1948)

Riggs, Lloyd K., Ph.D. Box 101, Oakdale, L. I., N. Y. *Consultant, Biochemistry, Nutrition, Foods and Feeds.* (**2,** 1929)

Riggs, Lorrin A., Ph.D. Brown Univ., Providence 12, R. I. *Prof. of Psychology.* (**1,** 1953)

Riggs, Thomas Rowland, Ph.D. Univ. of Michigan Med. School, Dept. of Biological Chemistry, Ann Arbor. (**2,** 1954)

Riker, Walter F., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Riley, Richard F., Ph.D. P. O. Box 4164, West Los Angeles 24, Calif. *Assoc. Prof. of Radiology and Physiological Chemistry, Univ. of California.* (**3,** 1950)

Riley, Richard L., M.D. 1901 Dixon Rd., Baltimore 9, Md. *Assoc. Prof. of Environmental Medicine, Johns Hopkins Univ.* (**1,** 1948).

Rinehart, James F., M.D. Univ. of California Med. School, Parnassus and Third Aves., San Francisco. *Prof. of Pathology and Chairman of Dept.* (**4,** 1933)

Ring, Gordon C., Ph.D. Univ. of Miami School of Medicine, Dept. of Physiology, Coral Gables 34, Fla. *Chairman of Dept.* (**1,** 1933)

Rinzler, Seymour H., M.D. Cornell Univ. Med. College, Dept. of Pharmacology, 1300 York Ave., New York City 21. *Instructor.* (**3,** 1951)

Rioch, David M., M.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Technical Dir., Neuropsychiatry Div.* (**1,** 1931)

Rittenberg, David, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (**2,** 1939)

Ritzman, E. G., A.M. Univ. of New Hampshire, Durham. *Research Prof.* (**5R,** 1933)

Rivers, T. M., M.D., Sc.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Director.* (**4,** 1925; **6,** 1921)

Robb, Jane Sands, Sc.D., M.D. State Univ. of New York at Syracuse, College of Medicine, Syracuse. *Assoc. Prof. of Pharmacology.* (**1,** 1924; **3,** 1952)

Robbins, Benjamin Howard, M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Prof. of Anesthesiology; Assoc. Prof. of Pharmacology.* (**3,** 1936)

Robbins, Frederick C., M.D. 2469 Wellington Rd., Cleveland Heights, Ohio. *Prof. of Pediatrics, Western Reserve Univ. School of Medicine; Dir., Dept. of Pediatrics and Contagious Diseases, Cleveland City Hosp.* (**6,** 1952)

Robbins, Kenneth C., Ph.D. 5648 N. Talman Ave., Chicago, Ill. *Biochemist, Research and Development Dept., Armour Labs.* (**6,** 1950)

Robbins, Mary L., Ph.D. George Washington Univ. School of Medicine, 1335 H St., N.W., Washington 5, D. C. *Assoc. Prof. of Bacteriology.* (**6,** 1946)

Robbins, Stanley L. Tufts Univ. Med. School, Mallory Inst. of Pathology, Boston City Hosp., Boston 18, Mass. *Assoc. Dir. and Assoc. Pathologist; Assoc. Prof. of Pathology, Boston Univ.* (**4,** 1952)

Roberts, Eugene, Ph.D. City of Hope Med. Ctr., Duarte, Calif. *Chairman, Dept. of Biochemistry.* (**2,** 1950)

Roberts, Joseph T., M.D., Ph.D. Veterans Admin. Hospital, Buffalo, N. Y. *Chief of Cardiology Sec.; Lecturer in Medicine, Univ. of Buffalo School of Medicine.* (**1,** 1947)

Roberts, Lydia J., Ph.D. Univ. of Puerto Rico, Rio Piedras, P. R. *Prof. and Chairman of Dept. of Home Economics.* (**5,** 1933)

Roberts, Sidney, Ph.D. Univ. of California Med. School, Los Angeles 24. *Assoc. Prof. of Physiological Chemistry.* (**1,** 1946; **2,** 1950)

Robertson, Elizabeth Chant, M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Clin. Teacher, Dept. of Pediatrics; Assoc. Physician, Hospital for Sick Children.* (**5,** 1939)

Robertson, James S., M.D., Ph.D. Brookhaven Natl. Lab., Med. Dept., Upton, L. I., N. Y. *Head, Med. Physics Div.* (**1,** 1954)

Robertson, Oswald H., M.D. Stanford Univ., Dept. of Biology, Palo Alto, Calif. *Prof. of Medicine.* (**4R,** 1932)

Robertson, William v. B., Ph.D. Univ. of Vermont, College of Medicine, Dept. of Biochemistry, Burlington. *Professor.* (**2,** 1952)

Robinson, Charles Summers, Ph.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. Emeritus of Biochemistry.* (**2R,** 1925)

Robinson, Elliott S., M.D., Ph.D. Elm St., Lancaster, N. H. (**6R,** 1935)

Robinson, G. Canby, M.D. 320 Carpenter St., Greenport, N. Y. (**1R,** 1912)

Robinson, Harry J., Ph.D., M.D. Merck Inst. for

Therapeutic Research, Rahway, N. J. *Assoc. Dir.* (**3,** 1946)

Robinson, Herbert E., Ph.D. Swift and Co., Research Labs., Union Stock Yards, Chicago 9, Ill. *Dir. of Labs.* (**5,** 1947)

Robinson, Howard W., Ph.D. Temple Univ. Med. School, Broad and Ontario Sts., Philadelphia, Pa. *Prof. of Physiological Chemistry.* (**2,** 1929)

Robinson, Sid, Ph.D. Indiana Univ. Med. School, Bloomington. *Prof. of Physiology.* (**1,** 1941)

Robinson, True W., Ph.D. Med. College of Alabama, Dept. of Physiology, Birmingham 3. (**1,** 1948)

Roblin, Richard O., Jr., Ph.D. American Cyanamid Co., 30 Rockefeller Plaza, New York City 20. *Asst. Gen. Manager, Research Div.* (**2,** 1946)

Robscheit-Robbins, F. S., Ph.D. 987 East Ave., Rochester, N. Y. (**1,** 1925; **4,** 1930)

Rocha e Silva, Mauricio, M.D. Instituto Biologico, Sao Paulo, Brazil. *Chief, Biochemistry and Pharmacology Section.* (**3,** 1952)

Rockland, Louis B., Ph.D. 263 S. Chester Ave., Pasadena 5, Calif. *Chemist, USDA, Fruit and Vegetable Chemistry Lab., Agricultural Research Service, Western Utilization Research Br.* (**2,** 1953)

Rockstein, Morris, Ph.D. New York Univ. College of Medicine, Dept. of Physiology, New York City 16. *Asst. Prof.* (**1,** 1955)

Rodahl, Kaare, M.D. Arctic Aeromed. Lab., APO 731, Seattle, Wash. *Dir. of Research.* (**1,** 1952)

Rodbard, Simon, Ph.D. Univ. of Buffalo School of Medicine, Chronic Disease Research Inst., Buffalo 14, N. Y. *Director.* (**1,** 1942)

Roderuck, Charlotte E., Ph.D. Iowa State College, Dept. of Foods and Nutrition, Ames. *Professor.* (**5,** 1951)

Rodkey, Frederick L., Ph.D. Harvard Med. School, Dept. of Biological Chemistry, Boston 15, Mass. *Asst. Prof.* (**2,** 1955)

Roe, Joseph Hyram, Ph.D. George Washington Univ. School of Medicine, Washington, D. C. *Prof. of Biochemistry; Exec. Officer of Dept.* (**2,** 1927; **5,** 1933)

Roeder, Kenneth D., M.A. Tufts Univ., Medford, Mass. *Prof. of Physiology.* (**1,** 1942)

Roepke, Martin Henry, Ph.D. Univ. of Minnesota, School of Veterinary Medicine. Univ. Farm, St. Paul. *Professor* (**3,** 1937)

Rogers, Fred T., Ph.D., M.D. Dallas Med. and Surgical Clinic, 4105 Live Oak St., Dallas 1, Tex. (**1,** 1917)

Rogers, Stanfield, M.D. Duke Univ. Med. School, Durham, N. C. *Assoc. Prof.* (**4,** 1952)

Rogoff, Julius M., M.D., Sc.D. Central Ave. and S. Beach Dr., Belle Island, Rowayton, Conn. (**1R,** 1916; **3R,** 1916)

Roine, Paavo K., Ph.D. Viikin Koetila, Malmi, Finland. *Prof. of Nutritional Chemistry, Helsinki Univ.* (**5,** 1950)

Rolfe, Daniel Thomas, M.D. Meharry Med. College, Nashville 8, Tenn. *Chairman, Dept. of Physiology; Prof. of Physiology.* (**1,** 1950)

Roll, Paul M., Ph.D. Marquette Univ. School of Medicine, Dept. of Biochemistry, Milwaukee 3, Wis. *Assoc. Prof.* (**2,** 1950)

Romanoff, Alexis L., Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Chemical Embryology.* (**1,** 1953)

Ronzoni, Ethel, Ph.D. Washington Univ. Med. School, 640 S. Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Biological Chemistry, Dept. of Psychiatry and Neurology.* (**2,** 1923)

Roos, Albert, M.D. Washington Univ. School of Medicine, Depts. of Physiology and Surgery, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Assoc. Prof. in Physiology and Surgery.* (**1,** 1949)

Root, Howard F., M.D. Joslin Clinic, 81 Bay State Rd., Boston, Mass. *Assoc. in Medicine, Harvard Med. School.* (**5,** 1933)

Root, Mary Avery, Ph.D. Eli Lilly and Co., Research Labs., Indianapolis 6, Ind. *Pharmacologist.* (**3,** 1952)

Root, Raymond W., Ph.D. College of the City of New York, 139th St. and Convent Ave., New York City. *Prof. of Biology; Head of Div. of Physiology.* (**1,** 1949)

Root, Walter S., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1,** 1932)

Rosahn, Paul D., M.D. 92 Grand St., New Britain, Conn. *Pathologist, New Britain General Hospital; Assoc. Clin. Prof. of Pathology, Yale Univ. School of Medicine.* (**4,** 1934)

Rose, Catharine S., Ph.D. Univ. of Pennsylvania, 815 Maloney Bldg., Philadelphia 4. *Assoc. in Pediatrics.* (**2,** 1953)

Rose, Harry M., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. and Chairman, Dept. of Microbiology.* (**6,** 1949)

Rose, Jerzy E., M.D. Johns Hopkins Univ. Med. School, Dept. of Physiology, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiology and Psychiatry.* (**1,** 1949)

Rose, William C., Ph.D. Univ. of Illinois, Urbana. *Research Prof. of Biochemistry, Emeritus.* (**2,** 1912; **5,** 1933)

Rosebury, Theodor, D.D.S. Washington Univ. School of Dentistry, 4559 Scott Ave., St. Louis 10, Mo. *Prof. of Bacteriology.* (**6,** 1953)

Roseman, Saul, Ph.D. Rackham Arthritis Research Unit, Univ. Hospital, Ann Arbor, Mich. *Asst. Prof. of Biological Chemistry, Univ. of Michigan.* (**2,** 1953)

Rosen, Fred, Ph.D. Ortho Research Fndn., Raritan, N. J. *Research Assoc. in Physiology.* (**5,** 1955)

Rosenberg, Hans Reinhard, D.Sc. E.I. duPont de Nemours and Co., Inc. Stine Lab., Wilmington, Del. *Manager, Nutrition Sec.* (**2,** 1954)

Rosenblueth, Arturo, M.D. Instituto Nacional de Cardiologia, Calzada de la Piedad 300, Mexico D.F., Mexico. (**1,** 1932)

Rosenfeld, Morris, M.D. Johns Hopkins School of Medicine, Baltimore, Md. *Assoc. Prof. of Pharmacology and Exper. Therapeutics.* (**3,** 1934)

Rosenman, Ray H., M.D. 3969 Washington St., San Francisco 18, Calif. *Research Assoc., Harold Brunn Inst., Mt. Zion Hosp.* (**1,** 1954)

Rosenow, Edward C., M.D. Longview State Hospital, Research Dept., Cincinnati 16, Ohio. (**4,** 1913; **6R,** 1915)

Rosenthal, Otto, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Assoc. Prof. of Biochemistry in Surgery, Harrison Dept. of Surgical Research.* (**2,** 1946)

Rosenthal, S. R., M.D., Ph.D. Univ. of Illinois College of Medicine, Chicago. *Assoc. Prof. of Preventive Medicine; Dir., Inst. for Tuberculosis Research of Univ. of Illinois.* (**1,** 1948; **4,** 1941)

Rosenthal, Sanford M., M.D. Natl. Insts. of Health, Bethesda, Md. *Chief, Lab. of Pharmacology and Toxicology, Inst. of Arthritis and Metabolic Diseases.* (**3,** 1925)

Ross, Joseph F., M.D. Univ. of California School of Medicine, Los Angeles 24. *Prof. of Medicine; Assoc. Dean.* (**4,** 1941)

Rossiter, R. J., M.D., Ph.D. Univ. of Western Ontario, London, Ontario, Canada. *Prof. of Biochemistry.* (**2,** 1948)

Rostorfer, Howard Hayes, Ph.D. Indiana Univ., Bloomington. *Assoc. Prof. of Physiology.* (**1,** 1946)

Roth, George B., M.D. 3814 T St. N.W., Washington, D. C. *Prof. Emeritus of Pharmacology, George Washington Univ.* (**1R,** 1914; **3R,** 1911)

Roth, Grace M., Ph.D. Mayo Clinic, Rochester, Minn. *Asst. to Staff Consultant in Physiology; Prof. of Exper. Medicine, Mayo Fndn.* (**1,** 1939)

Roth, James Luther d'Aumont, M.D., Ph.D. Univ. of Pennsylvania Grad. Hospital, 19th and Lombard Sts., Philadelphia 46. *Asst. Prof. of Gastroenterology and of Physiology, Grad. School of Medicine, Univ. of Pennsylvania; Dir., Gastrointestinal Research.* (**1,** 1950).

Roth, L. W., Ph.D. Abbott Research Labs., Dept. of Pharmacology, North Chicago, Ill. *Asst. Head of Dept.* (**1,** 1947; **3,** 1950)

Roth, Lloyd J., M.D., Ph.D. Univ. of Chicago, Dept. of Pharmacology, Chicago, Ill. *Asst. Prof.* (**3,** 1955)

Rothchild, Irving, Ph.D., M.D. Kings County Hosp., Brooklyn, N. Y. (**1,** 1949)

Rothemund, Paul W. K., Dr.-Ing. Antioch College, Yellow Springs, Ohio. *Prof. of Chemistry; Research Chemist, C. F. Kettering Foundation.* (**2,** 1940)

Rothlin, Ernst, M.D. Sonnenweg 6, Basle, Switzerland. *Prof. of Medicine.* (**3,** 1951)

Rothstein, A., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 7, N. Y. *Assoc. Prof. of Pharmacology; Chief, Physiology Sec., AEC Project.* (**1,** 1949; **3,** 1952)

Rous, Peyton, M.D., Sc.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Member Emeritus.* (**4,** 1913)

Routh, Joseph I., Ph.D. State Univ. of Iowa Clinical Biochemistry Lab., Iowa City. *Prof. of Biochemistry.* (**2,** 1942)

Rovenstine, Emery Andrew, M.D. 477 First Ave., New York City. *Prof., Dept. of Medicine, New York Univ.-Bellevue Med. Center.* (**3,** 1944)

Rowntree, Jennie I., Ph.D. Univ. of Washington, Seattle. *Prof. and Dir., School of Home Economics.* (**5,** 1933)

Rowntree, L. G., M.D., Sc.D. Dupont Bldg., E. Flagler St. at Second Ave., Miami, Fla. (**1R,** 1911; **2R,** 1910; **3R,** 1908)

Rubenstein, Boris B., Ph.D., M.D. 5121 S. Ellis Ave., Chicago 15, Ill. (**1,** 1934)

Rubin, Bernard, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Research Pharmacologist.* (**3,** 1954)

Rubin, Saul H., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Dir., New Product Development.* (**2,** 1947; **5,** 1947)

Ruch, Theodore C., Ph.D. Univ. of Washington, G405 Health Sciences Bldg., Seattle 5. *Prof. and Exec. Officer, Dept. of Physiology and Biophysics.* (**1,** 1933)

Ruchman, Isaac, Ph.D. Cincinnati General Hospital, Cincinnati, Ohio. *Asst. Prof. of Microbiology.* (**6,** 1948)

Rudin, Donald O., M.D. Massachusetts Gen. Hosp., Boston. *Research Assoc. in Anesthesia, Harvard Med. School.* (**1,** 1955)

Rudney, Harry, Ph.D. Western Reserve Univ. School of Medicine, Dept. of Biochemistry, Cleveland 6, Ohio. *Asst. Prof.* (**2,** 1955)

Ruegamer, W. R., Ph.D. VA Hosp., Radioisotope Unit, Syracuse 10, N. Y. *Principal Scientist; Asst. Prof. of Biochemistry, State Univ. of N. Y.* (**2,** 1955)

Rugh, Roberts, Ph.D. Columbia Univ., College of Physicians and Surgeons, Dept. of Radiology, New York City 32. *Assoc. Prof. of Radiology.* (**1,** 1950)

Ruhe, C. H. William, M.D. Univ. of Pittsburgh, School of Medicine, 3941 O'Hara St., Pittsburgh 13, Pa. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1951)

Rusch, Harold Paul, M.D. Univ. of Wisconsin Med. School, McArdle Memorial Lab., Madison 6. *Prof. of Oncology; Dir. of Lab.* (**4,** 1940)

Rushmer, Robert F., M.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Assoc. Prof.* **(1,** 1949)

Rusoff, Louis L., Ph.D. Louisiana State Univ., Baton Rouge. *Nutritionist.* **(5,** 1948)

Russell, Jane A., Ph.D. Emory Univ., Dept. of Biochemistry, Emory University, Ga. *Assoc. Prof.* **(1,** 1939)

Russell, William O., M.D., Univ. of Texas Med. Ctr., Houston. *Pathologist-in-Chief.* **(4,** 1955)

Rustigian, Robert, Ph.D. Tufts Univ. School of Medicine, Dept. Bacteriology and Pathology, Boston 11, Mass. *Asst. Prof.* **(6,** 1951)

Ryan, Andrew Howard, M.D. Chicago Med. School, 710 S. Wolcott Ave., Chicago, Ill. *Assoc. Prof. of Physiology and Pharmacology.* **(1,** 1912)

Rytand, David A., M.D. Stanford Univ. Hospital, San Francisco 15, Calif. *Prof. and Exec. of Dept. of Medicine, Stanford Univ. School of Medicine.* **(3,** 1946)

Sabin, Albert, M.D. Children's Hospital Research Foundation, Cincinnati, Ohio. *Prof. of Research Pediatrics, Univ. of Cincinnati.* **(6,** 1946)

Sable, Henry Z., M.D., Ph.D. Western Reserve Univ., Dept. of Biochemistry, 2109 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof.* **(2,** 1954)

Sachs, Ernest, M.D. 28 Marlborough Rd., North Haven, Conn. *Prof. Emeritus of Clin. Neurological Surgery, Washington Univ. Med. School. and Yale Univ.* **(1R,** 1910)

Sacks, Jacob, Ph.D., M.D. Univ. of Arkansas, Dept. of Chemistry, Fayetteville. *Professor.* **(1,** 1948; **3,** 1933)

Sah, Peter P. T., Ph.D. Univ. of Calif., School of Veterinary Medicine, Dept. of Pharmacology, Davis. *Professor.* **(3,** 1941)

Sahyun, Melville, Ph.D. Sahyun Research Lab., 316 Castillo St., Santa Barbara, Calif. *Dir. and Pres.* **(2,** 1932)

Sakami, Warwick, Ph.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland 6, Ohio. *Assoc. Prof. of Biochemistry.* **(2,** 1949)

Salerno, Paul R., M.D., Ph.D. Western Reserve Univ., Dept. of Pharmacology, Cleveland, Ohio. *Asst. Prof.* **(3,** 1955)

Salk, Jonas E., M.D. Virus Research Laboratory, Municipal Hospital, Pittsburgh, Pa. *Research Prof. of Bacteriology.* **(6,** 1947)

Salmon, W. D., A.M. Alabama Polytechnic Inst., Auburn. *Head, Animal Husbandry and Nutrition.* **(2,** 1929; **5,** 1933)

Salomon, Kurt, M.D., Ph.D. Univ. of Rochester, Atomic Energy Project, P. O. Box 287, Station 3, Rochester 20, N. Y. *Section Chief, Dept. of Radiation Chemistry; Asst. Prof. of Radiation Biology and Biochemistry.* **(2,** 1952)

Salvin, Samuel B., Ph.D. U. S. Public Health Service, Rocky Mountain Lab., Hamilton, Mont. *Sr. Scientist.* **(6,** 1952)

Sampson, John J., M.D. 2211 Post St., San Francisco, Calif. *Clin. Prof. of Medicine, Univ. of California.* **(1,** 1932)

Sampson, Myra M., Ph.D. Smith College, Northampton, Mass. *Prof. Emeritus of Zoology.* **(5,** 1935)

Samuels, Leo T., Ph.D. Univ. of Utah Med. School, Salt Lake City. *Prof. and Head of Dept. of Biological Chemistry.* **(2,** 1941; **3,** 1937; **5,** 1949)

Sanadi, D. Rao, Ph.D. Univ. of California, Dept. of Physiological Chemistry, Berkeley 4. **(2,** 1952)

Sandels, Margaret R., Ph.D. Florida State Univ., Tallahassee. *Dean of School of Home Economics; Prof. of Nutrition.* **(5,** 1933)

Sandiford, Irene, Ph.D. 1374 E. 57th St., Chicago 37, Ill. **(2,** 1925; **5R,** 1933)

Sandow, Alexander, Ph.D. Washington Square College of Arts and Sciences, New York Univ., New York City. *Assoc. Prof. of Biology.* **(1,** 1945)

Sandweiss, David J., M.D. 9739 Dexter Ave., Detroit, Mich. *Instr. in Clin. Medicine, Wayne Univ. College of Medicine; Chief, Sec. on Gastroenterology, Sinai Hosp.* **(1,** 1944)

Sanford, Arthur H., M.D. Clin. Labs., Mayo Clinic, Rochester, Minn. *Head of Div. of Clin. Labs.* **(6R,** 1920)

Santos, Francisco O., Ph.D. Univ. of the Philippines, College of Agriculture, Laguna. *Asst. Dean and Asst. Dir., Central Exper. Station; Prof. and Head of Dept. of Agricultural Chemistry, College of Agriculture.* **(5,** 1936)

Saphir, Otto, M.D. Michael Reese Hospital, 29th St. and Ellis Ave., Chicago 16, Ill. *Dir. of Pathology. Clin. Prof. of Pathology, Univ. of Illinois Med. School.* **(4,** 1927)

Saphra, Ivan, M.D. Beth Israel Hospital, New York City 3. *Chief Bacteriologist.* **(6,** 1946)

Sapirstein, Leo Abraham, Ph.D., M.D. Ohio State Univ., Dept. of Physiology, Columbus 10. **(1,** 1950)

Sarett, Herbert P., Ph.D. Mead, Johnson & Co., Research Labs., Evansville 21, Ind. *Dir. Nutritional Research.* **(2,** 1946; **5,** 1947)

Sargent, Frederick, II, M.D. 607 S. Elm St., Champaign, Ill. *Asst. Prof. of Physiology, Univ. of Illinois, Urbana.* **(1,** 1952)

Sarnoff, Stanley J., M.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Chief, Lab. of Cardiovascular Hemodynamics.* **(1,** 1949)

Sartorius, Otto W., M.D. Syracuse Univ., College of Medicine, Irving Ave., Syracuse, N. Y. *Asst. Prof. of Physiology.* **(1,** 1950)

Saslaw, Samuel, Ph.D., M.D. Ohio State Univ., Columbus 10. *Assoc. Prof. in Medicine and Bacteriology.* **(6,** 1950)

Saslow, George, Ph.D., M.D. Washington Univ. Med. School, Dept. of Neuropsychiatry, 640 S. Kingshighway, St. Louis, Mo. *Asst. Prof. of Psychiatry; Assoc. Physician to the Student Health Service.* (**1,** 1936)

Satterfield, G. Howard, A.M. Univ. of North Carolina, State College of Agriculture and Engineering, Raleigh. *Prof. of Biochemistry.* (**2,** 1944; **5,** 1941)

Sauberlich, Howerde E., Ph.D. Alabama Polytechnic Inst., Dept. of Animal Husbandry and Nutrition, Auburn. *Prof. and Animal Nutritionist.* (**2,** 1951; **5,** 1952)

Saul, Leon Joseph, M.D. Room 1907, 255 S. 17th St., Philadelphia 3, Pa. *Prof. of Clin. Psychiatry, Med. School Univ. of Pennsylvania.* (**1,** 1933)

Savard, F. G. Kenneth, D.Sc. Worcester Foundation for Exptl. Biology, Shrewsbury, Mass. *Staff—Sr. Member; Dept. of Medicine, Boston Univ. Med. School, Boston.* (**2,** 1953)

Sawyer, Charles H., Ph.D. Univ. of California School of Medicine, Dept. of Anatomy, Los Angeles 24. *Prof. and Chairman of Dept.* (**1,** 1949)

Sawyer, Margaret E. MacKay, Ph.D. 142 Lower Albert St., Kingston, Ontario, Canada. *Royal Military College.* (**1,** 1935)

Sawyer, Wilbur H., Ph.D., M.D. New York Univ. College of Medicine, Dept. of Physiology, 550 First Ave., New York City 16. *Asst. Prof.* (**1,** 1953)

Saxton, John A., Jr., M.D. Snodgras Lab. of Pathology and Bacteriology, 1430 Carroll St., St. Louis, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine; Lab. Dir., Hospital Div., City of St. Louis.* (**4,** 1944)

Sayers, George, Ph.D. Western Reserve Univ., School of Medicine, Dept. of Physiology, Cleveland 6, Ohio. *Professor.* (**1,** 1948; **3,** 1947)

Scantlebury, Ronald E., Ph.D. Natl. Insts. of Health, Div. of Research Grants and Fellowships, Bethesda 14, Md. *Chief, Research Fellowships Branch.* (**1,** 1948)

Schachman, Howard K., Ph.D. Univ. of California, Biochemistry and Virus Lab., Berkeley 4. *Assoc. Prof. of Biochemistry; Assoc. Research Biochemist.* (**2,** 1955)

Schaefer, Arnold E., Ph.D. Natl. Insts. of Health, Interdepartmental Committee on Nutrition, Bethesda 14, Md. (**5,** 1950)

Schaefer, Karl Ernst, M.D. U. S. Naval Med. Research Lab., New London, Conn. *Research Physiologist; Head, Physiology Branch.* (**1,** 1953)

Schaffer, Norwood K., Ph.D., M.D. Chemical Corps Med. Labs., Enzyme Chemistry Branch, Army Medical Center, Md. *Biochemist.* (**2,** 1954)

Schales, Otto, D.Sc. Ochsner Clinic, Prytania and Aline Sts., New Orleans, La. *Dir. of Chemical Research, Ochsner Foundation; Dir., Clin. Chemistry Lab., Ochsner Clinic; Prof. of Biochemistry, Tulane Univ. School of Medicine.* (**2,** 1944)

Schallek, William B., Ph.D. Hoffman-LaRoche, Inc., Nutley 10, N.J. *Physiologist.* (**1,** 1951)

Scharles, Frederick H., M.D. 333 N. Highland Ave., Los Angeles 36, Calif. (**5,** 1935)

Schattenberg, Herbert John, M.D. Lab. of Clin. Pathology, 222 Med. Arts Bldg., San Antonio, Tex. *Director.* (**4,** 1940)

Schayer, Richard W., Ph.D. Rheumatic Fever Research Inst., 3026 S. California Ave., Chicago 8, Ill. *Head, Biochemistry Sec.* (**2,** 1952)

Scheer, Bradley T., Ph.D. Univ. of Oregon, Eugene. *Prof. of Biology.* (**1,** 1952)

Schenck, Jay R., Ph.D. Abbott Labs., North Chicago, Ill. *Research Biochemist.* (**2,** 1952)

Schenken, John R., M.D. Univ. of Nebraska College of Medicine, Omaha. *Prof. of Pathology and Bacteriology.* (**4,** 1942)

Scher, Allen M., Ph.D. Univ. of Washington, Dept. of Physiology and Biophysics, Seattle 5. *Asst. Prof.* (**1,** 1955)

Scheraga, Harold A., Ph.D. Cornell Univ., Dept. of Chemistry, Ithaca, N. Y. *Assoc. Prof.* (**2,** 1955)

Scherago, Morris, D.V.M. Univ. of Kentucky, Dept. of Bacteriology, Lexington. *Prof. and Head of Dept.* (**6,** 1948)

Scherer, William F., M.D. Univ. of Minnesota Med. School, Minneapolis 14. *Asst. Prof. of Bacteriology and Immunology.* (**6,** 1954)

Scherp, Henry W., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Bacteriology and Immunochemistry.* (**6,** 1940)

Schick, Bela, M.D. 17 E. 84th St., New York City. *Dir. Pediatrics Dept., Beth El Hosp., Brooklyn.* (**6,** 1924)

Schiffrin, Milton J., Ph.D. Hoffmann-LaRoche, Inc., Chicago, Ill. *Asst. Dir., Dept. of Clin. Research.* (**1,** 1943)

Schiller, Joseph, M.D., Ph.D. VA Hosp., 408 First Ave., New York City. *Staff.* (**1,** 1949)

Schiller, Sara, Ph.D. La Rabida Sanitarium, E. 65th St. and S. Shore Dr., Chicago 49, Ill. *Sr. Biochemist, Univ. of Chicago.* (**2,** 1955)

Schlamowitz, Max, Ph.D. Div. of Biochemistry, Roswell Park Memorial Inst., Buffalo 3, N. Y. (**2,** 1953)

Schlegel, J. U., M.D., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester 20, N. Y. *Asst. Prof. of Urologic Physiology; Dir. of Urological Research Lab.* (**1,** 1951)

Schlenk, Fritz, Ph.D. Argonne Natl. Lab., Lemont, Ill. *Sr. Biochemist, Div. of Biological and Med. Research.* (**2,** 1942)

Schlomovitz, Benjamin H., M.D. 1210 Majestic Bldg., 231 W. Wisconsin Ave., Milwaukee, Wis. (**1,** 1919)

Schlumberger, Hans G., M.D. Ohio State Univ. College of Medicine, Columbus. *Prof. of Pathology.* (**4,** 1945)

Schmeisser, Harry C., M.D. Univ. of Tennessee, Memphis. *Prof. Emeritus of Pathology.* (**4,** 1937)

Schmid, Karl, Ph.D. Massachusetts Gen. Hosp., Lovett Memorial Labs., Boston 14. *Asst. Biochemist.* (**2,** 1954)

Schmidt, C. Robert, Ph.D., M.D. 1027 S. Tejon, Colorado Springs, Colo. (**1,** 1940)

Schmidt, Carl F., M.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. of Pharmacology.* (**1,** 1929; **3,** 1924)

Schmidt, Emil G., Ph.D. Univ. of Maryland School of Medicine, Dept. of Biological Chemistry, Baltimore 18. *Prof. and Head of Dept.* (**2,** 1951)

Schmidt, Gerhard, M.D. Boston Dispensary, 25 Bennett St., Boston, Mass. *Sr. Research Prof. of Biochemistry, Tufts Univ. Med. School.* (**2,** 1939)

Schmidt, L. H., Ph.D. Christ Hospital Inst. of Med. Research, 2139 Auburn Ave., Cincinnati 19, Ohio. *Dir. of Research; Research Prof. of Biochemistry, Univ. of Cincinnati College of Medicine.* (**2,** 1936; **3,** 1946)

Schmidt-Nielsen, Bodil, Dr.Odont., Dr.Phil. Duke Univ., Dept. of Zoology, Durham, N. C. *Sr. Research Assoc.; Established Investigator, Am. Heart Assn.* (**1,** 1949)

Schmidt-Nielsen, Knut, Dr.Phil. Duke Univ., Dept. of Zoology, Durham, N. C. *Professor.* (**1,** 1949)

Schmitt, Francis Otto, Ph.D. Massachusetts Inst. of Technology, Cambridge. *Prof. of Biology.* (**1,** 1930)

Schmitt, Otto H., Ph.D. Univ. of Minnesota, Dept. of Physics, Minneapolis 14. *Prof. of Zoology and Physics.* (**1,** 1947)

Schneider, Burch H., Ph.D. State College of Washington, Dept. of Animal Husbandry, Pullman. *Professor.* (**5,** 1952)

Schneider, Charles L., M.D., Ph.D. 22148 Michigan Ave., Dearborn, Mich. *Jr. Consultant in Gynecology, Wayne Co. Gen. Hosp.* (**1,** 1949)

Schneider, Howard A., Ph.D. Rockefeller Inst. for Med. Research, 66th Street and York Avenue, New York City 21. *Associate.* (**5,** 1947)

Schneider, John J., Ph.D., M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Asst. Prof. Exper. Medicine.* (**2,** 1950)

Schneider, Jurg A., M.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Dir. of Physiology Research.* (**3,** 1954)

Schneider, Walter C., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Chemist, Lab. of Biology.* (**2,** 1951)

Schneierson, S. Stanley, M.D. Mount Sinai Hospital, 2 East 100th St., New York City 29. *Attending Microbiologist.* (**6,** 1946)

Schneyer, Leon H., D.D.S., Ph.D. Univ. of Alabama School of Dentistry and Medical College of Alabama, Birmingham 3. *Asst. Prof. of Physiology; Assoc. Prof. of Dentistry.* (**1,** 1955)

Schoenborn, Henry W., Ph.D. Univ. of Georgia, Dept. of Zoology, Athens. *Professor.* (**1,** 1955)

Schoepfle, Gordon M., Ph.D. Washington Univ. School of Medicine, St. Louis, Mo. *Assoc. Prof. of Physiology.* (**1,** 1943)

Scholander, P. F., M.D., Ph.D. Univ. of Oslo, Inst. of Zoophysiology, Oslo, Norway. (**1,** 1947)

Schradieck, Constant E., M.D. 26 Woodchester Rd., Wellesley Hills, Mass. (**6,** 1921)

Schreiner, Oswald, Ph.D. 21 Primrose St., Chevy Chase 15, Md. *Collaborator, U.S.D.A.* (**2R,** 1908)

Schrek, Robert, M.D. Veterans Admin. Hospital, Hines, Ill. *Chief, Tumor Research Unit; Asst. Prof. of Pathology, Northwestern Univ., Chicago.* (**4,** 1952)

Schroeder, Henry A., M.D. Washington Univ., School of Medicine, 640 S. Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Medicine.* (**1,** 1947)

Schubert, Jack, Ph.D. Argonne Natl. Lab., Box 299, Lemont, Ill. *Senior Chemist; Lecturer in Chemistry, Univ. of Chicago.* (**2,** 1954).

Schubert, Maxwell, Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Adjunct Assoc. Prof. of Chemistry.* (**3,** 1947)

Schuck, Cecelia, Ph.D. Purdue Univ., School of Home Economics, Dept. of Food and Nutrition, Lafayette, Ind. *Prof. of Nutrition.* (**5,** 1941)

Schueler, Fred W., Ph.D. State Univ. of Iowa College of Medicine, Dept. of Pharmacology, Iowa City. *Assoc. Prof.* (**3,** 1949)

Schulman, Martin P., Ph.D. State Univ. of N. Y. Med. School, Dept. of Biochemistry, Syracuse 10, N. Y. *Asst. Prof.* (**2,** 1954)

Schultz, Edwin William, M.D. Stanford Univ., 743 Cooksey Lane, Stanford, Calif. *Prof. of Bacteriology and Exper. Pathology Emeritus.* (**4,** 1927; **6R,** 1928)

Schultz, Fred H., Jr., Ph.D. The Wander Co., 105 W. Adams St., Chicago, Ill. *Dir. of Research.* (**3,** 1948)

Schultz, Julius, Ph.D. Temple Univ. Med. School, Fels Research Inst., Philadelphia 40, Pa. *Assoc. Prof. of Biochemistry; Research Biochemist.* (**2,** 1955)

Schultz, W. H., Ph.D. 241 W. Broadway, Long Beach, N. Y. *Prof. Emeritus of Pharmacology, Univ. of Maryland.* (**1R,** 1907; **3R,** 1909)

Schultze, Max O., Ph.D. Univ. of Minnesota, Dept.

of Agricultural Biochemistry, Univ. Farm, St. Paul 1. *Professor.* (**2,** 1938; **5,** 1952)

Schwartz, Irving L., M.D. Rockefeller Inst. for Med. Research, York Ave. and East 66th St., New York City 21. *Assoc.; Assoc. Physician to the Hospital.* (**1,** 1952)

Schwartz, Samuel, M.D. Univ. of Minnesota, Dept. of Medicine, Minneapolis 14. *Assoc. Prof. of Exper. Medicine.* (**2,** 1952)

Schweigert, B. S., Ph.D. Univ. of Chicago, American Meat Inst. Foundation, 939 E. 57th St., Chicago 37, Ill. *Assoc. Prof. of Biochemistry; Asst. Dir. of Research, American Meat Inst.* (**2,** 1949; **5,** 1950)

Schweizer, Malvina, Ph.D. New York Univ., Washington Square College of Arts and Sciences, New York City. *Assoc. Prof. of Biology.* (**1,** 1944)

Schwerma, Henry, Ph.D., M.D. 6030 Sheridan Rd., Apt. 1304, Chicago 40, Ill. *Practicing Anesthesiologist.* (**1,** 1948)

Schwert, George W., Ph.D. Duke Univ. School of Medicine, Dept. of Biochemistry, Durham, N. C. *Assoc. Prof.* (**2,** 1949)

Schwimmer, Sigmund, Ph.D. Western Regional Research Lab., U. S. Dept. of Agriculture, 800 Buchanan St., Albany, Calif. *Chemist, Vegetable Processing Div.* (**2,** 1947)

Scott, Charles Covert, Ph.D., M.D. Warner-Chilcott Labs., Morris Plains, N. J. *Dir. of Pharmacology.* (**3,** 1945)

Scott, David Alymer, Ph.D. Connaught Labs., Univ. of Toronto, Toronto 5, Ontario, Canada. *Research Member.* (**2,** 1935)

Scott, Donald, Jr., Ph.D. Univ. of Pennsylvania Med. School, 243 Anatomy Bldg., Philadelphia 4. *Asst. Prof., Dept. of Physiology; Assoc., Dept. of Neurology.* (**1,** 1950)

Scott, Edward M., Ph.D. Arctic Health Research Center, Box 960, Anchorage, Alaska. *Chief, Biochemistry and Nutrition.* (**2,** 1954)

Scott, Ernest L., Ph.D. 64 South St., Bogota, N. J. *Assoc. Prof. Emeritus of Physiology, Columbia Univ.* (**1R,** 1914; **2R,** 1915)

Scott, James K., M.D. Univ. of Rochester School of Medicine and Dentistry, Atomic Energy Project, Rochester 7, N. Y. *Chief, Pathology Section, AEC; Assoc. in Pathology.* (**4,** 1949)

Scott, John C., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Prof. and Head of Dept. of Physiology.* (**1,** 1936)

Scott, Milton Leonard, Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Animal Nutrition and Poultry Husbandry.* (**2,** 1952; **5,** 1954)

Scott, R. W., M.D. City Hospital, Cleveland, Ohio. *Physician in Chief; Prof. of Clin. Medicine, Western Reserve Univ.* (**1R,** 1917; **3,** 1917)

Scott, V. Brown, Ph.D., M.D. Inlow Clinic, Shelbyville, Ind. *Internist, Div. of Medicine.* (**1,** 1941)

Scott, W. W., Ph.D., M.D. Brady Urological Inst., Johns Hopkins Hospital, Baltimore 5, Md. *Urologist-in-Charge; Prof. of Urology, Johns Hopkins Univ. School of Medicine.* (**1,** 1943)

Scow, Robert O., M.D. Natl. Insts. of Health, Natl. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Surgeon, USPHS.* (**1,** 1953)

Scrimshaw, Nevin S., Ph.D., M.D. Instituto de Nutricion de Centro America y Panama, Guatemala City, Guatemala, Central America. *Regional Advisor in Nutrition, Pan American Sanitary Bureau and WHO; Dir., Inst. of Nutrition of Central America and Panama.* (**1,** 1955; **5,** 1949)

Scudi, John V., Ph.D. Wallace and Tiernan, Inc., Box 178, Newark 1, N. J. *Dir., Pharmaceutical Research.* (**2,** 1942; **3,** 1950; **5,** 1945)

Seager, Lloyd D., M.D. Univ. of Arkansas Med. School, Little Rock. *Prof. and Head, Dept. of Physiology and Pharmacology.* (**3,** 1939)

Seaman, Gerald R., Ph.D. Univ. of Texas Med. Branch, Galveston. *Assoc. Prof. of Physiology.* (**1,** 1952)

Seastone, C. V., Jr., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. and Chairman of Med. Bacteriology.* (**6,** 1939)

Seay, Patrick H., Ph.D. The Upjohn Co., Dept. of Pharmacology, Kalamazoo, Mich. *Research Pharmacologist.* (**3,** 1955)

Sebrell, W. H., Jr., M.D. American Cancer Soc., New York City. *Research Consultant.* (**2,** 1938; **5,** 1937)

Seeberg, Victor P., Ph.D. Cutter Labs., Berkeley, Calif. *Dir., Pharmacological Research Dept.* (**3,** 1953)

Seecof, David P., M.D. 1970 Daly Ave., Bronx, New York City. (**4,** 1927)

Seed, John C., M.D. The Wellcome Research Labs., Tuckahoe, N. Y. (**3,** 1952)

Seegal, Beatrice Carrier, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Microbiology.* (**4,** 1951; **6,** 1949)

Seegal, David, M.D. Goldwater Memorial Hospital, Columbia (First) Div., Welfare Island, New York City 17. *Dir.; Prof. of Medicine, Columbia Univ.* (**6,** 1930)

Seegers, Walter H., Ph.D. Wayne Univ. College of Medicine, 1401 Rivard, Detroit 7, Mich. *Prof. of Physiology; Chairman, Dept. of Physiology and Pharmacology.* (**1,** 1947; **2,** 1941)

Seevers, Maurice Harrison, Ph.D., M.D. Univ. of Michigan, Ann Arbor. *Prof. and Chairman of Dept. of Pharmacology.* (**1,** 1933; **3,** 1930)

Segaloff, Albert, M.D. Alton Ochsner Med. Foundation, 3503 Prytania St.. New Orleans, La. *Dir. of Endocrine Research.* (**4,** 1946)

Seibert, Florence B., Ph.D. Univ. of Pennsylvania, Henry Phipps Inst., 7th and Lombard Sts., Philadelphia. *Prof. of Biochemistry.* (**2**, 1925)

Seibert, Richard A., Ph.D. Baylor Univ. College of Medicine, Dept. of Pharmacology, Houston 25, Tex. *Asst. Prof.* (**3**, 1953)

Seidell, Atherton, Ph.D. 2301 Connecticut Ave., Washington 8, D. C. (**2R**, 1924)

Seifter, Joseph, M.D. Wyeth Inst. for Med. Research, Radnor, Pa. *Director.* (**3**, 1940)

Seifter, Sam, Ph.D. Long Island Jewish Hosp., 270-05 76th Ave., New Hyde Park, N. Y. (**2**, 1946)

Selkurt, Ewald E., Ph.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Physiology.* (**1**, 1945)

Sell, Harold M., Ph.D. Michigan State Univ., Dept. of Agricultural Chemistry, East Lansing. *Prof. (Research).* (**2**, 1954)

Selle, Wilbur Arthur, Ph.D. Univ. of California at Los Angeles Med. School, Los Angeles. *Prof., Dept. of Biophysics.* (**1**, 1938)

Sellers, E. A., M.D., Ph.D. Univ. of Toronto, Dept. of Physiology, Toronto, Ontario, Canada. *Prof. of Physiology; Assoc. Prof. in Banting and Best Dept. of Med. Research.* (**1**, 1947)

Selye, Hans, M.D., Ph.D., D.Sc. Inst. of Exper. Medicine and Surgery, Univ. of Montreal, Montreal. Quebec, Canada. *Prof. and Dir.* (**1**, 1934)

Semple, Robert E., Ph.D. Queen's Univ., Dept. of Physiology, Kingston, Canada. *Asst. Prof.* (**1**, 1955)

Sendroy, Julius, Jr., Ph.D. Naval Med. Research Inst., Natl. Naval Med. Center, Bethesda 14, Md. *Chief Chemist.* (**1**, 1954; **2**, 1928)

Seraydarian, Maria W., Ph.D. Tufts Univ. Med. School, Boston, Mass. *Sr. Instr. in Physiology.* (**1**, 1955)

Sevag, M. G., Ph.D. Univ. of Pennsylvania School of Medicine, Microbiology Dept., Philadelphia 4. *Assoc. Prof.* (**2**, 1949; **6**, 1941)

Severinghaus, Elmer L., M.D. Hoffman-La Roche, Inc., Nutley 10, N. J. *Vice-Pres. for Clin. Research.* (**2**, 1923; **5**, 1939)

Shack, Joseph, Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Biochemist.* (**2**, 1954)

Shaffer, C. Boyd, Ph.D. American Cyanamid Co., 30 Rockefeller Plaza, New York City 20. *Chief Industrial Toxicologist.* (**3**, 1950)

Shaffer, Morris F., Ph.D. Tulane Univ. School of Medicine, Dept. of Microbiology, New Orleans, La. *Prof. and Dept. Chairman.* (**4**, 1939; **6**, 1937)

Shaffer, Philip A., Ph.D. Washington Univ. Med. School, St. Louis 10, Mo. *Prof. Emeritus of Biological Chemistry.* (**2R**, 1906)

Shanes, Abraham M., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda, 14, Md. *Animal Physiologist.* (**1**, 1946)

Shank, Robert E., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Preventive Medicine and Head of Dept.* (**2**, 1947)

Shannon, James A., Ph.D., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Director.* (**1**, 1933; **3**, 1945)

Shapiro, Herbert, Ph.D. Hospital of the Univ. of Pennsylvania, 3600 Spruce St., Philadelphia 4. *Asst. Prof. of Physical Medicine, Grad. School of Medicine.* (**1**, 1937)

Sharpless, George R., Sc.D. Lederle Labs., Pearl River, N. Y. *Research Assoc.* (**5**, 1942)

Shaughnessy, Howard J., Ph.D. Univ. of Illinois, Dept. of Public Health, Chicago 12, Ill. *Prof. and Head of Dept.; Dep. Dir., Div. of Labs.* (**6**, 1955)

Shaw, Elliott, Ph.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Associate.* (**2**, 1954)

Shaw, J. C., Ph.D. Univ. of Maryland, Dept. of Dairy Husbandry, College Park. *Professor.* (**1**, 1947)

Shaw, James H., Ph.D. Harvard School of Dental Medicine, Boston, Mass. *Assoc. Prof. of Biological Chemistry.* (**5**, 1948)

Shaw, Myrtle, Ph.D. 11 S. Lake Ave., Albany, N. Y. *Sr. Bacteriologist, Div. of Labs. and Research, N. Y. State Dept. of Health.* (**6**, 1937)

Shay, Harry, M.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Dir. of Fels Research Inst. and Prof. of Clin. Medicine.* (**1**, 1944)

Shear, Murray J., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Chief, Lab. of Chemical Pharmacology.* (**2**, 1930; **3**, 1953)

Sheard, Charles, Ph.D. Mayo Foundation, Rochester, Minn. *Chief of Div. of Physics and Biophysical Research; Prof. of Physiological Optics and Biophysics, Univ. of Minnesota.* (**1**, 1925)

Shechmeister, I. L., Ph.D. Washington Univ. School of Dentistry, St. Louis, Mo. *Assoc. Prof. of Bacteriology.* (**6**, 1951)

Sheehan, Donal, M.D., D.Sc. New York Univ.-Bellevue Med. Center, 550 First Ave., New York City. (**1**, 1938)

Sheffner, A. Leonard, Ph.D. QM Food and Container Inst. for the Armed Forces, 1819 W. Pershing Rd., Chicago 9, Ill. *Supervisory Chemist.* (**2**, 1954)

Shelesnyak, M. C., Ph.D. Weizmann Inst. of Science, Dept. of Exper. Biology, Rehovoth, Israel. *Sr. Scientist.* (**1**, 1948)

Shelley, Walter B., Ph.D., M.D. Univ. of Pennsylvania Hospital, 3400 Spruce St., Philadelphia 4. *Physician.* (**1**, 1946)

Shemin, David, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (**2**, 1944)

Shepard, Charles C., M.D. Public Health Service, P.O. Box 61, Montgomery 1, Alabama. *Sr. Surgeon.* (**6,** 1951)

Sheppard, C. W., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Principal Physicist.* (**1,** 1950)

Sheppard, Fay, M.S. Univ. of Oklahoma Med. School, Oklahoma City. *Instr. in Biochemistry.* (**2,** 1936)

Sherman, F. G., Ph.D. Brown Univ., Dept. of Biology, Providence 12, R. I. *Assoc. Prof.* (**1,** 1950)

Sherman, William C., Ph.D. Chas. Pfizer and Co., Terre Haute, Ind. (**5,** 1949)

Sherrod, Theodore R., Ph.D., M.D. Univ. of Illinois, College of Medicine, 1853 West Polk St., Chicago 12. *Assoc. Prof. of Pharmacology.* (**3,** 1952)

Sherwin, Carl Paxson, Sc.D., M.D., Dr. P.H. Whippleville, N. Y. *Consultant, Med. Dept., Hyde Memorial Hospital, Malone, N. Y.* (**2R,** 1917)

Sherwood, Noble P., Ph.D., M.D. Univ. of Kansas, 503 Snow Hall, Lawrence. *Pathologist.* (**6,** 1928)

Sherwood, Thomas Cecil, Ph.D., M.D. 2133 Octavia, New Orleans 15, La. *Dir. of Anesthesia, Mercy Hosp.* (**1,** 1938)

Shettles, Landrum B., Ph.D., M.D. Columbia Univ., College of Physicians and Surgeons, Box 330, 622 W. 168th St., New York City. *Asst. Prof. of Clin. Obstetrics and Gynecology.* (**1,** 1946)

Shideman, Frederick E., Ph.D., M.D. Univ. of Wisconsin, Dept of Pharmacology, Madison 6. *Prof. of Pharmacology and Toxicology.* (**3,** 1944)

Shilling, Charles W., M.D. Atomic Energy Commission, Washington 25, D. C. *Dep. Dir., Div. of Biology and Medicine.* (**1,** 1955)

Shils, Maurice E., Sc.D. 439 Sagamore Ave., Teaneck, N. J. *Student, N. Y. Univ. College of Medicine.* (**5,** 1950)

Shimkin, Michael Boris, M.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Chief of Biometry and Epidemiology Branch.* (**4,** 1940)

Shinowara, George Y., Ph.D. Ohio State Univ. College of Medicine, Columbus 10. *Prof. and Chief of Div. of Chem. Pathology.* (**2,** 1949)

Shipley, Reginald A., M.D. Veterans Admin. Hospital, 7300 York Rd., Cleveland 30, Ohio. *Dir., Radioisotope Unit.* (**1,** 1945)

Shipley, Robert E., M.D. Lilly Lab. for Clin. Research, Indianapolis City Hospital, Indianapolis, Ind. *Physiologist.* (**1,** 1945)

Shive, William, Ph.D. Univ. of Texas, Dept of Chemistry, Austin. *Prof. of Chemistry.* (**2,** 1948)

Shlaer, Simon, Ph.D. Box 1663, Los Alamos, N. M. *Staff Member, Los Alamos Scientific Lab.* (**1,** 1938)

Shock, Nathan W., Ph.D. Baltimore City Hospitals, Baltimore 24, Md. *Chief, Section on Gerontology, USPHS, Natl. Insts. of Health, Bethesda, Md.* (**1,** 1942)

Shoemaker, Harold A., Ph.D. Univ. of Oklahoma School of Medicine, 801 N. E. 13th St., Oklahoma City. *Prof. of Pharmacology.* (**3,** 1941)

Shope, Richard E., M.D. Ridge Road, Kingston, N. J. *Member, Rockefeller Inst.* (**4,** 1934)

Shorr, Ephraim, M.D. New York Hospital, 525 E. 68th St., New York City. *Attending Physician; Assoc. Prof. of Medicine, Cornell Univ. Med. College.* (**1,** 1931; **3,** 1942)

Shreeve, Walton W., M.D., Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Scientist, Med. Dept.* (**2,** 1955)

Shrigley, E. W., Ph.D., M.D. Indiana Univ. Med. Center, Dept. of Microbiology, 1100 W. Michigan St., Indianapolis 7. *Prof. and Chairman of Dept.* (**6,** 1946)

Shulman, Sidney, Ph.D. Univ. of Buffalo School of Medicine, Dept. of Bacteriology and Immunology, Buffalo 14, N. Y. *Asst. Prof. of Immunochemistry.* (**2,** 1953)

Shwartzman, Gregory, M.D. 230 E. 50th St., New York City. *Head of Dept. of Microbiology, Mount Sinai Hospital; Prof. of Microbiology, Columbia Univ.* (**4,** 1929; **6,** 1930)

Sichel, F. J. M., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Prof. and Chairman of Dept. of Physiology and Biophysics.* (**1,** 1939)

Sickles, Grace M., B.A. 2201 Twelfth St., Troy, N. Y. *Assoc. Bacteriologist, Div. of Labs. and Research, New York State Dept. of Health.* (**6,** 1932)

Sickles, Gretchen R., A.B. New York State Dept. of Health, Div. of Labs. and Research, Albany, N. Y. *Assoc. Bacteriologist.* (**6,** 1937)

Siebenmann, Charles O., D.Eng. Connaught Med. Research Labs., Univ. of Toronto, Toronto 5, Ontario, Canada. *Research Assoc.; Lecturer in Hygiene and Preventive Medicine.* (**3,** 1946)

Siebens, Arthur A., M.D. State Univ. of New York Med. Center at New York, Dept. of Physiology and Pharmacology, Brooklyn 2. *Assoc. Prof.* (**1,** 1952)

Siebert, Walter J., M.D. Lutheran Hospital, St. Louis, Mo. *Dir. of Labs.; Pathologist; Asst. Prof., Washington Univ.* (**4,** 1932)

Siegmund, Otto Hanns, D.V.M. Merck and Co., Inc., Veterinary Research Dept., Rahway, N. J. *Mgr., Veterinary Literature Sec.* (**3,** 1950)

Siekevitz, Philip, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave. New York City 21. *Assistant.* (**2,** 1954)

Sigel, M. Michael, Ph.D. School of Medicine, Univ. of Miami, Coral Gables, Fla. *Assoc. Prof., Dept. of Bacteriology.* (**6,** 1950)

Silber, Robert H., Ph.D. Merck Inst., Rahway, N. J. *Head, Dept. of Biochemistry.* (**2,** 1948)

Silberberg, Martin, M.D. 18 S. Kingshighway, St. Louis 8, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine; Sr. Pathologist, Hospital Div., City of St. Louis.* (**4,** 1944)

Silberberg, Ruth, M.D. 18 S. Kingshighway, St. Louis 8, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine; Sr. Pathologist, Hospital Div., City of St. Louis.* (**4,** 1944)

Silverman, Milton, Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Sr. Scientist.* (**2,** 1950)

Silvette, Herbert, Ph.D. "Low Gear," Stanardsville, Va. (**1,** 1933; **3,** 1940)

Simmonds, Sofia, Ph.D. Yale Univ., School of Medicine, Dept. of Biochemistry, 333 Cedar St., New Haven 11, Conn. *Assoc. Prof. of Biochemistry and Microbiology.* (**2,** 1948)

Simonds, James P., Ph.D., M.D. 1200 Belden Ave., Chicago 45, Ill. *Prof. Emeritus of Pathology, Northwestern Univ. Med. School.* (**4,** prior to 1920)

Simonsen, Daisy G., Ph.D. St. Joseph Hospital, Orange, Calif. *Biological Chemist.* (**2,** 1949)

Simonson, Ernst, M.D. Univ. of Minnesota, Lab. of Physiological Hygiene, Stadium South Tower, Minneapolis 14. *Assoc. Prof. of Physiology.* (**1,** 1941)

Simpson, Melvin V., Ph.D. Yale Univ. School of Medicine, Dept. of Biochemistry, New Haven, Conn. *Asst. Prof.* (**2,** 1955)

Simpson, Miriam E., Ph.D., M.D. Univ. of California, Berkeley. *Prof. of Anatomy.* (**1,** 1946)

Sinclair, Hugh, M.D. Univ. of Oxford, Oxford, England. *Dir., Lab. of Human Nutrition.* (**5,** 1953)

Singal, Sam A., Ph.D. Med. College of Georgia, Augusta. *Assoc. Prof. of Biochemistry.* (**2,** 1948; **5,** 1955)

Singer, Thomas P., Ph.D. Dept. of Biochemistry, Edsel B. Ford Inst. for Med. Research, Henry Ford Hosp., Detroit 2, Mich. *Head, Enzyme Div.* (**2,** 1948)

Sinsheimer, Robert L., Ph.D. Iowa State College, Dept. of Physics, Ames. *Prof. of Biophysics.* (**2,** 1953)

Sirota, Jonas H., M.D. 120 North 4th St., San Jose 12, Calif. (**1,** 1951)

Sizer, Irwin W., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Assoc. Prof. of Biochemistry.* (**1,** 1944; **2,** 1955)

Skelton, Floyd Reginald, M.D., Ph.D., Med. College of Georgia, Augusta. *Asst. Prof. of Pathology.* (**4,** 1954)

Skinner, John Taylor, Ph.D. Tennessee Polytechnic Inst., Dept. of Chemistry, Cookeville. (**2,** 1946)

Skipper, Howard E., Ph.D. Southern Research Inst., 917 S. 20th St., Birmingham, Ala. *Asst. Dir. and Head, Biochemistry Div.* (**2,** 1953)

Slater, Irwin H., M.D. Lilly Research Labs. Indianapolis 6, Ind. (**3,** 1951)

Slein, Milton W., Ph.D. 102 Norva Ave., Frederick, Md. *Biochemist, Camp Detrick.* (**2,** 1953)

Sloane, Nathan H., Ph.D. American Cyanamid Company, Lederle Labs. Div., Pearl River, N. Y. *Group Leader in Biochemistry.* (**2,** 1954)

Slomka, Myron B., Ph.D. Univ. of Texas Southwestern Med. School, Dallas. *Asst. Prof. of Pharmacology.* (**3,** 1955)

Sloviter, Henry A., Ph.D., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Asst. Prof. of Biochemistry.* (**2,** 1954)

Smadel, Joseph Edwin, M.D. Army Med. Service Grad. School, Washington 12, D. C. *Chief, Dept. of Virus and Rickettsial Diseases.* (**4,** 1940; **6,** 1937)

Small, James C., M.D. 101 S. 39th St., Philadelphia, Pa. (**4,** 1927)

Smetana, Hans F., M.D. Armed Forces Inst. of Pathology, Walter Reed Army Med. Ctr., Washington 25, D. C. *Sr. Pathologist.* (**4,** 1934)

Smith, Arthur H., Ph.D. Wayne Univ. College of Medicine, Detroit 7, Mich. *Prof. and Head of Dept. of Physiological Chemistry.* (**2,** 1921; **5,** 1933)

Smith, Austin Edward, M.D. American Med. Assoc., 535 N. Dearborn St., Chicago, Ill. *Editor, J.A.M.A.* (**3,** 1942)

Smith, Carl C., Ph.D. Christ Hospital, Inst. of Med. Research, Cincinnati 19, Ohio. *Research Assoc. in Pharmacology.* (**3,** 1951)

Smith, Cedric M., M.D. Univ. of Illinois College of Medicine, Dept. of Pharmacology, Chicago. *Instructor.* (**3,** 1955)

Smith, C. A., Ph.D. 82 N. Summit St., Bergenfield, N. J. (**1R,** 1921)

Smith, David T., M.D. Duke Hospital, Durham, N. C. *Prof. of Bacteriology and Assoc. Prof. of Medicine.* (**5,** 1943; **6,** 1949)

Smith, Dietrich Conrad, Ph.D. Univ. of Maryland School of Medicine, Lombard and Greene Sts., Baltimore. *Prof. of Physiology.* (**1,** 1937)

Smith, Donn L., Ph.D. Univ. of Colorado, Dept. of Pharmacology, 4200 E. Ninth Ave., Denver. *Assoc. Prof.* (**3,** 1953)

Smith, Douglas E., Ph.D. Argonne Natl. Lab., P.O. Box 299, Lemont, Ill. *Assoc. Physiologist.* (**1,** 1947)

Smith, Durwood James, M.D. Univ. of Vermont, College of Medicine, Burlington. *Prof. of Pharmacology.* (**1,** 1952; **3,** 1955)

Smith, Edwin L., Ph.D. Univ. of Texas Dental Branch, Houston. *Prof. of Physiology.* (**1,** 1948)

Smith, Elinor Van Dorn, Ph.D. 56 Middle St., Hadley, Mass. *Prof. of Bacteriology, Smith College.* (**6,** 1940)

Smith, Elizabeth R. B., Ph.D. Army Med. Service

Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Biochemist*, (2, 1938)

Smith, Emil L., Ph.D. Univ. of Utah School of Medicine, Salt Lake City 1. *Prof. of Biochemistry; Research Prof. of Medicine*. (2, 1946)

Smith, Erma A., Ph.D., M.D. Veterans Admin. Hospital, Hines, Ill. *Physical Medicine* (1, 1928)

Smith, Falconer, Ph.D. 6020 Tilden Lane, Rockville, Md. *Sr. Scientist, PHS; Research in Radiobiology*. (1, 1950)

Smith, Frederick G., Ph.D. Iowa State College, Botany Dept., Ames. *Assoc. Prof.* (2, 1954)

Smith, Grant Newey, Ph.D. Dow Chemical Co. Agric. Research Lab., Midland, Mich. *Biochemist*. (2, 1953)

Smith, H. P., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Delafield Prof. of Pathology*. (1, 1937; 4, 1925)

Smith, Homer W., Sc.D. New York Univ., Bellevue Med. Center, 550 First Ave., New York City. *Prof. of Physiology*. (1, 1923; 2, 1930)

Smith, Janice M., Ph.D. Univ. of Illinois, Dept. of Home Economics, Urbana. *Prof. and Head of Dept.* (5, 1947)

Smith, Jay A., Ph.D. Chicago Med. School, Dept. of Physiology, 710 S. Wolcott Ave., Chicago 12, Ill. *Assoc. Prof.* (1, 1951)

Smith, John R., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Medicine*. (1, 1947)

Smith, Lawrence Weld, M.D. 1100 Madison Ave., New York City 21. (4, 1927)

Smith, Lee Irvin, Ph.D. Univ. of Minnesota School of Chemistry, Minneapolis 14. *Prof. and Chief of Div. of Organic Chemistry*. (2, 1942)

Smith, Margaret Cammack, Ph.D. El Encanto Estates, Tucson, Ariz. (5, 1933)

Smith, Margaret H. D., M.D. New York Univ. Med. School, 550 First Ave., New York City 16. (6, 1953)

Smith, Paul K., Ph.D. George Washington Univ. School of Medicine, 1335 H St., N.W., Washington 5, D. C. *Prof. of Pharmacology and Exec. Officer of Dept.* (2, 1937; 3, 1937)

Smith, Paul W., Ph.D. Univ. of Oklahoma School of Medicine, 801 N. E. 13th St., Oklahoma City. *Prof. of Pharmacology*. (1, 1933; 3, 1951)

Smith, Philip Edward, Ph.D. Columbia Univ., 630 W. 168th St., New York City 32. (1R, 1923)

Smith, Ralph G., M.D., Ph.D. Dept. of Health, Education and Welfare, Food and Drug Admin., Washington 25, D. C. *Chief, New Drug Br.; Adjunct Clin. Prof. of Medicine, George Washington Univ.* (3, 1929)

Smith, R. Blackwell, Jr., Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Pharmacology*. (3, 1944)

Smith, Robert E., Ph.D. Univ. of California at Los Angeles Med. School, Los Angeles 24. *Assoc. Prof. of Physiology*. (1, 1953)

Smith, Sedgwick E., Ph.D. Cornell Univ., Dept. of Animal Husbandry, Ithaca, N. Y. *Professor*. (5, 1945)

Smith, Susan Gower, M.A. Duke Univ., Durham, N. C. *Assoc. in Nutrition, School of Medicine*. (5, 1939)

Smith, Sybil L., A. M. 1421 44th St., N. W., Washington, D. C. (5R, 1940)

Smith, Wilbur Kenneth, M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. Prof. of Anatomy*. (1, 1939)

Smith, Willie W., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Physiologist*. (1, 1941)

Smithburn, Kenneth C., M.D. Rockefeller Foundation, 49 West 49th St., New York City 20. *Staff Member*. (6, 1937)

Smolens, Joseph, B.S. Children's Hospital, 1740 Bainbridge St., Philadelphia, Pa. *Staff Member; Asst. Prof. of Bacteriology in Pediatrics, Univ. of Pennsylvania*. (6, 1943)

Smythe, C. V., Ph.D. 5000 Richmond St., Philadelphia, Pa. *Head of Biochemistry Lab., Rohm & Haas Co.* (2, 1934)

Snape, William J., M.D. 573 Stevens St., Camden, N. J. (1, 1948)

Snell, Albert M., M.D. Palo Alto Clinic, 300 Homer St., Palo Alto, Calif. (4, 1930)

Snell, Esmond E., Ph.D. Univ. of Texas, Dept. of Chemistry, Austin 12. *Prof.* (2, 1942; 5, 1946)

Snider, Ray S., Ph.D. Northwestern Univ. School of Medicine, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. of Anatomy*. (1, 1949)

Snoke, John E., Ph.D. Univ. of California Med. Center, Dept. of Physiological Chemistry, Los Angeles 24. *Asst. Prof.* (2, 1954)

Snyder, Charles D., Ph.D. 4709 Keswick Rd., Baltimore, Md. *Prof. Emeritus of Exper. Physiology, Johns Hopkins Univ.* (1R, 1907)

Snyder, Franklin Faust, M.D. Boston Lying-In Hospital, Boston, Mass. (1, 1936)

Snyder, John Crayton, M.D. Harvard School of Public Health, 55 Shattuck St., Boston, Mass. *Prof. of Microbiology and Dean of the Faculty*. (6, 1950)

Snyderman, Selma E., M.D. New York Univ. College of Medicine, Dept. of Pediatrics, New York City 16. *Asst. Prof.* (5, 1953)

Sobel, Albert E., Ph.D. Jewish Hospital of Brooklyn, 555 Prospect Pl., Brooklyn 16, N. Y. *Head of Dept. of Biochemistry; Adjunct Prof. of Chemistry, Polytechnic Inst. of Brooklyn; Special Lecturer, N. Y. State Univ. College of Medicine*. (2, 1939)

Sober, Herbert A., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Head, Unit of Physical and Chromatographic Separations*. (2, 1951)

Sobin, Sidney S., M.D., Ph.D. 416 N. Bedford Drive, Beverly Hills, Calif. *Asst. Clin. Prof. of Medicine, Univ. of Southern California School of Medicine, Los Angeles; Dir., Cardiovascular Lab., Children's Hosp.* (**1,** 1949)

Sobotka, Harry, Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City 29. *Dir. of Chemistry Lab.* (**2,** 1932; **5,** 1933)

Sokoloff, Louis, M.D. Natl. Inst. of Mental Health, NIH, Bethesda 14, Md. *Assoc. Chief, Sec. on Cerebral Metabolism.* (**1,** 1955)

Solandt, Donald Young, M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Physiology in charge of Biophysics, Faculty of Medicine; Prof. and Head of Dept. of Hygiene, School of Hygiene.* (**1,** 1937)

Sollmann, Torald, M.D. 14327 Superior Rd., Cleveland, Ohio. *Prof. Emeritus of Pharmacology, Western Reserve Univ.* (**1R,** 1902; **2R,** 1906; **3R,** 1908)

Solomon, A. K., Ph.D. Harvard Med. School, Biophysical Lab., Boston, Mass. *Asst. Prof. of Physiological Chemistry.* (**1,** 1952)

Solotorovsky, Morris, Ph.D. 111 Rockview Ave., North Plainfield, N. J. *Merck Inst. for Therapeutic Research Rahway, N. J.; Research Assoc. in Chemotherapy.* (**6,** 1946)

Sommers, Sheldon C., M.D. Massachusetts Memorial Hosp., Boston. *Pathologist.* (**4,** 1954)

Somogyi, Michael, Ph.D. 216 S. Kingshighway, St. Louis, Mo. *Biochemist, Jewish Hospital of St. Louis.* (**2,** 1927)

Sonnenschein, Ralph R., M.D., Ph.D. Univ. of California School of Medicine, Los Angeles 24. *Assoc. Prof. of Physiology.* (**1,** 1950)

Soodak, Morris, Ph.D. Massachusetts Gen. Hosp., Lovett Memorial Labs., Boston 14. *Asst. Biochemist; Research Assoc., Dept. of Medicine, Harvard Med. School.* (**2,** 1955)

Sorof, Sam, Ph.D. Inst. for Cancer Research, Fox Chase, Philadelphia 11, Pa. *Research Assoc.* (**2,** 1955)

Soskin, Samuel, M.D., Ph.D. 414 N. Camden Drive, Beverly Hills, Calif. *Assoc. Clin. Prof. of Medicine, Univ. of California at Los Angeles; Chief of Diabetic Service, Cedars of Lebanon Hosp.* (**1,** 1930; **5,** 1933)

Spain, Will C., M.D. 570 Park Ave., New York 21, N. Y. *Clin. Prof. of Medicine, Post-Grad. Med. School, New York Univ.* (**6,** 1923)

Spaulding, Earle H., Ph.D. Temple Univ., School of Medicine, Broad St. at Ontario, Philadelphia 40, Pa. *Prof. and Head of Dept. of Microbiology.* (**6,** 1950)

Spealman, C. R., Ph.D. Dept. of Commerce, Civil Aeronautics Admin., Washington 25, D. C. *Chief, Safety Projects Branch.* (**1,** 1940)

Specht, Heinz, Ph.D. Natl. Insts. of Health, Bethesda, Md. *Scientist Dir., PHS.* (**1,** 1941)

Spector, Harry, Ph.D. Quartermaster Food and Container Inst. for the Armed Forces, 1849 W. Pershing Rd., Chicago 9, Ill. *Chief, Nutrition Div.* (**5,** 1950)

Speirs, Mary, Ph.D. Univ. of Georgia, Athens. *Dean, School of Home Economics.* (**5,** 1949)

Spencer, Joseph N., Ph.D. Commercial Solvents Corp., 1331 S. First St., Terre Haute, Ind. *Pharmacologist.* (**3,** 1951)

Spencer, Merrill P., M.D. Bowman Gray School of Medicine, Winston-Salem, N. C. *Asst. Prof. of Physiology and Pharmacology.* (**1,** 1954)

Sperling, Frederick, Ph.D. Agricultural Research Ctr., Insecticide Testing Branch, Beltsville, Md. *Pharmacologist-in-charge, Pharmacology and Rodenticide Lab.* (**3,** 1953)

Sperry, Roger W., Ph.D. California Inst. of Technology, Pasadena. *Hixon Prof. of Psychobiology.* (**1,** 1945)

Sperry, Warren M., Ph.D. New York State Psychiatric Inst., 722 W. 168th St., New York City 32. *Principal Research Scientist (Biochemistry); Prof. of Biological Chemistry, Columbia Univ.* (**2,** 1929)

Spicer, Samuel S., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon, PHS.* (**1,** 1950)

Spiegel, Ernest A., M.D. Temple Univ. School of Medicine, Broad and Ontario Sts., Philadelphia, Pa. *Prof. and Head of Dept. of Exper. Neurology.* (**1,** 1936)

Spiegel-Adolf, Mona, M.D. Temple Univ. School of Medicine, Broad and Ontario Sts., Philadelphia, Pa. *Prof. of Colloid Chemistry.* (**2,** 1933)

Spiegelman, Sol, Ph.D. Univ. of Illinois, Dept. of Bacteriology, Urbana. (**1,** 1946)

Spies, Tom D., M.D. Hillman Hospital, Birmingham, Ala. *Dir. of Nutrition Clinic.* (**3,** 1941; **4,** 1940; **5,** 1938)

Spink, Wesley W., M.D. Univ. of Minnesota Hospital, Minneapolis. *Prof. of Medicine, Univ. of Minnesota Med. School.* (**6,** 1940)

Spirtes, Morris A., M.D. Hahnemann Med. College, Philadelphia 2, Pa. *Asst. Prof. of Pharmacology.* (**3,** 1955)

Spitzer, John J., M.D. New York State Dept. of Health, Div. of Labs and Research, Albany 1. *Research Scientist.* (**1,** 1955)

Spohn, Adelaide, Ph.D. 1415 E. 57th St., Chicago 37, Ill. *Nutritionist.* (**5,** 1933)

Spoor, Herbert J., Ph.D., M.D. 116 Parsons Blvd., Malba, L. I., N. Y. *Research Assoc. and Asst. Prof. of Dermatology, New York Med. College.* (**1,** 1945)

Sprague, James Mather, Ph.D. Univ. of Pennsylvania School of Medicine, Dept. of Anatomy, Philadelphia 4, Pa. *Assoc. Prof. of Anatomy.* (**1,** 1953)

Sprent, John F. A., D.Sc., Ph.D. Univ. of Queensland School of Vet. Science, Brisbane, Australia. *Research Prof.* (**6**, 1955)

Sprinson, David B., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Biochemistry. 630 W. 168th St., New York City 32. *Assoc. Prof.* (**2**, 1949)

Sproul, Edith E., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Pathology, New York City 32. *Assoc. Prof.* (**4**, 1941)

Sprunt, Douglas H., M.D,. Univ. of Tennessee Memphis. *Prof. of Pathology; Head of Dept. of Pathology and Bacteriology.* (**4**, 1934; **6**, 1936)

Squibb, Robert L., Ph.D. Instituto Agropecuario Nacional, 'La Aurora,' Guatemala City, Guatemala, C. A. *Head of Dept. of Animal Husbandry and Nutrition.* (**5**, 1953)

Stacy, Ralph W., Ph.D. Ohio State Univ., Lab. of Biophysics, Dept. of Physiology, Hamilton Hall, Columbus 10. *Assoc. Prof.* (**1**, 1949)

Stadie, William C., M.D. 821 Maloney Clinic, 36th and Spruce Sts., Philadelphia 4, Pa. *John Herr Musser Prof. of Research Medicine, Univ. of Pennsylvania.* (**2R**, 1922)

Stadtman, Earl R., Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Biochemist.* (**2**, 1951)

Stahmann, Mark A., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Assoc. Prof.* (**2**, 1951)

Stamler, Jeremiah, M.D. Michael Reese Hospital, Med. Research Inst., Cardiovascular Dept., Chicago, Ill. *Asst. Dir.; Established Investigator, Am. Heart Assn.* (**1**, 1951)

Stanley, Wendell M., Ph.D., Sc.D. Univ. of California, Virus Lab., Berkeley 4. *Prof. of Biochemistry; Dir. of Virus Lab.* (**2**, 1936)

Stannard, James Newell, Ph.D. Univ. of Rochester Med. School, Atomic Energy Project, Rochester 7, N. Y. *Assoc. Prof. of Pharmacology and Radiation Biology.* (**1**, 1938; **3**, 1953)

Stansly, Philip G., Ph.D. Detroit Inst. of Cancer Research, 4811 John R. St., Detroit 1, Mich. *Research Assoc.; Assoc. Prof. of Microbiology, Wayne Univ. College of Medicine.* (**2**, 1950)

Stare, Fredrick J., Ph.D., M.D. 695 Huntington Ave., Boston 15, Mass. *Prof. and Head of Dept. of Nutrition, Harvard Univ.* (**2**, 1937; **5**, 1942)

Starr, Isaac, M.D. Hospital of the Univ. of Pennsylvania, Philadelphia. *Hartzell Research Prof. of Therapeutics.* (**1**, 1929; **3**, 1942)

Stavely, Homer E., Ph.D., D.Sc. Commercial Solvents Corp., Pharmaceutical Research Div., Terre Haute, Ind. *Dir., Pharmaceutical Research.* (**2**, 1952)

Stavitsky, Abram B., Ph.D., V.M.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland 6, Ohio. *Assoc. Prof. of Microbiology.* (**6**, 1950)

Stavraky, George W., M.D. Univ. of Western Ontario, Med. School, London, Ontario, Canada. *Prof. of Physiology.* (**1**, 1937; **3**, 1944)

Stead, Eugene A., Jr., M.D. Duke Univ., Dept. of Medicine, Durham, N. C. (**1**, 1945)

Stearns, Genevieve, Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Research Prof. of Orthopedics.* (**2**, 1932; **5**, 1937)

Stebbins, Robert B., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Research Assoc., Pathology.* (**4**, 1951)

Steele, Betty F., Ph.D. 1872 Selby St., St. Paul, Minn. (**5**, 1954)

Steele, J. Murray, M.D. Third (N.Y.U.) Research Div., Goldwater Memorial Hospital, Welfare Island, New York City 17. *Prof. of Medicine, New York Univ.; Dir. of 3rd Research Service.* (**1**, 1936)

Steele, Robert, Ph.D. Brookhaven Natl. Lab., Biology Dept., Upton, L. I., N. Y. *Biochemist.* (**2**, 1952)

Steenbock, Harry, Ph.D., Sc.D. Univ. of Wisconsin, Madison. *Prof. of Biochemistry.* (**2R**, 1912; **5**, 1933)

Stefanini, Mario, M.D., D.T.M. & H. St. Elizabeth Hosp., Boston, Mass. *Dir. of Research and Hematologist; Established Investigator, Am. Heart Assn.* (**1**, 1952)

Steffee, C. Harold, M.D., Ph.D. Natl. Cancer Inst., Lab. of Pathology, Bethesda 14, Md. *Pathologist.* (**4**, 1950)

Steggerda, F. R., Ph.D. Univ. of Illinois, 416 Natural History Bldg., Urbana. *Prof. of Physiology,* (**1**, 1934)

Steigman, Alex J., M.D. 323 E. Chestnut St., Louisville 2, Ky. *Chairman, Dept. of Pediatrics, Univ. of Louisville School of Medicine.* (**6**, 1949)

Steigmann, Frederick, M.D. 348 S. Hamlin Ave., Chicago, Ill. *Clin. Assoc. Prof. of Medicine, Univ. of Illinois, College of Medicine; Assoc. Attending Physician, Cook County Hospital.* (**3**, 1942)

Steiman, S. E., Ph.D., M.D. 23 Broad St., Lynn, Mass. (**1**, 1939)

Stein, George J., Ph.D. USOM, American Embassy, Saigon, Vietnam. (**6**, 1947)

Stein, S. N., M.D. Naval Med. Research Inst., Bethesda 14, Md. *Head, Physiology Div.* (**1**, 1953)

Stein, William H., Ph.D. Rockefeller Inst. for Med. Research, 66th and York Ave., New York City 21. *Member.* (**2**, 1946)

Steinbach, H. Burr, Ph.D. Univ. of Minnesota, Dept. of Zoology, Minneapolis 14, Minn. *Prof. of Zoology.* (**1**, 1934)

Steinberg, Bernhard, M.D. Toledo Hospital Inst. of Med. Research, Toledo, Ohio. *Director;*

Chief Pathologist and Dir. of Labs., Toledo Hospital. (**4,** 1928; **6,** 1946)

Steiner, Paul E., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Pathology.* (**4,** 1939)

Steinhardt, Jacinto, Ph.D. 4004 Laird Pl., Chevy Chase 15, Md. *Dir., Operations Evaluation Group, Mass. Inst. of Technology.* (**2,** 1939)

Steinhaus, Arthur H., Ph.D. 5315 Drexel Ave., Chicago, Ill. *Prof. of Physiology, George Williams College, Hyde Park.* (**1,** 1928)

Steinhaus, John E., M.D., Ph.D. Univ. of Wisconsin School of Medicine, Dept. of Anesthesiology, Madison 6. *Asst. Prof.* (**3,** 1951)

Steinman, H. G., Ph.D. Natl. Microbiological Inst., Lab. of Clin. Investigation, NIH, Bethesda 14, Md. *Chief, Sec. on Biochemistry and Immunology.* (**2,** 1954)

Stekol, Jakob A., Sc.D. Lankenau Hosp. Inst. for Cancer Research, Philadelphia 11, Pa. *Head, Dept. of Physiological Chemistry and Nutrition.* (**2,** 1936; **5,** 1952)

Stepto, Robert C. Loyola Univ. Stritch School of Medicine, Chicago, Ill. *Clin. Instr., Obstetrics and Gynecology.* (**4,** 1952)

Stern, Joseph R., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Pharmacology.* (**2,** 1952)

Stern, Kurt, M.D. Mt. Sinai Hosp., Med. Research Fndn. and Hosp., 2750 W. 15th Pl., Chicago, Ill. *Dir. of Blood Center; Assoc. Prof. of Pathology, Chicago Med. School.* (**6,** 1954)

Stern, Kurt G., Ph.D. Polytechnic Inst. of Brooklyn, 99 Livingston St., Brooklyn 1, N. Y. *Adjunct Prof. of Biochemistry.* (**2,** 1938)

Sternberger, L. A., M.D. Northwestern Univ. Med. School, Chicago, Ill. *Assoc. Dir. of Research (Allergy).* (**6,** 1954)

Stetten, DeWitt, Jr., M.D., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. (**2,** 1944)

Stetten, Marjorie R., Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Chemist (Biochemistry).* (**2,** 1947)

Stevens, Carl M., Ph.D. State College of Washington, Dept. of Chemistry, Pullman. *Prof. of Biochemistry.* (**2,** 1951)

Stevens, Kingsley M., M.D. Sharpe & Dohme Research Labs., West Point, Pa. (**6,** 1955)

Stevens, S. Smith, Ph.D. Harvard Univ., Memorial Hall, Cambridge, Mass. *Prof. of Psychology; Dir. of Psychological Labs.* (**1,** 1937)

Stevenson, James A. F., M.A., M.D.C.M. Univ. of Western Ontario, London, Ontario, Canada. *Prof. and Head, Dept. of Physiology; Hon. Lecturer, Dept. of Med. Research.* (**1,** 1950)

Stewart, Dorothy R., Ph.D. Rockford College, Rockford, Ill. *Chairman, Biology Dept.* (**1,** 1947)

Stewart, Fred W., M.D. Memorial Hospital, 444 E. 68th St., New York City. *Pathologist; Prof. of Pathology, Sloan-Kettering Div., Cornell Med. School.* (**4,** 1928)

Stewart, Harold L., M.D. Natl. Cancer Inst., Bethesda, Md. *Chief, Dept. of Pathologic Anatomy.* (**4,** 1936)

Stewart, Wellington B., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Pathology.* (**4,** 1950)

Stewart, Winifred Bayard, M.D. 1930 Spruce St., Philadelphia, Pa. *Prof. of Neurology, Woman's Med. College of Pennsylvania.* (**1,** 1941)

Stickney, J. Clifford, Ph.D. West Virginia Univ. School of Medicine, Morgantown. *Assoc. Prof. of Physiology.* (**1,** 1944)

Stiebeling, Hazel K., Ph.D. USDA Agric. Research Service, Washington 25, D. C. *Dir., Home Economics Research.* (**5,** 1933)

Stier, Theodore J. B., Ph.D. Indiana Univ. Med. School, Bloomington. *Prof. of Physiology.* (**1,** 1938)

Still, Eugene U., Ph.D. Box 991, Sarasota, Fla. (**1,** 1929)

Stimmel, Benjamin F., Ph.D. Rees-Stealy Clinic Research Fndn., 2001 Fourth Ave., San Diego, Calif. *Director.* (**2,** 1947)

Stock, Aaron H., M.D. Children's Hospital of Pittsburgh, 125 De Soto St., Pittsburgh, Pa. *Assoc. Prof. of Bacteriology and Immunology, Univ. of Pittsburgh School of Medicine.* (**6,** 1947)

Stock, C. Chester, Ph.D. Sloan-Kettering Inst. for Cancer Research, 410 East 68th St., New York City 21. *Chief, Div. of Exptl. Chemotherapy.* (**2,** 1952)

Stockton, Andrew Benton, M.D. 655 Sutter St., San Francisco, Calif. *Asst. Clin. Prof. of Medicine.* (**3,** 1931)

Stoerk, Herbert C., M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Exptl. Pathology.* (**4,** 1948)

Stoesser, Albert V., M.D., Ph.D. Univ. of Minnesota Med. School, 616 Marquette Bank Bldg., Minneapolis. *Prof. of Pediatrics.* (**6,** 1949)

Stohlman, Edward F., LL.B. Natl. Insts. of Health, Bethesda, Md. *Assoc. Pharmacologist.* (**3,** 1948)

Stokinger, Herbert E., Ph.D. Occupational Health Field HQ, Occupational Health Program, Cincinnati 2, Ohio. *Chief Toxicologist.* (**3,** 1950; **6,** 1947)

Stokstad, E. L. Robert, Ph.D. Lederle Labs., Pearl River, N. Y. *Assoc. Dir., Nutrition and Physiology Dept.* (**2,** 1947; **5,** 1942)

Stoland, O. O., Ph.D. 1845 Learnard Ave., Lawrence, Kan. *Prof. of Physiology Emeritus, Univ. of Kansas.* (**1R,** 1913)

Stoll, Alice M., M.S. Naval Air Development Ctr., Johnsville, Pa. *Physiologist.* (**1,** 1955)

Stoll, Arthur, Ph.D. Sandoz, Inc., Basle, Switzerland. *Pres., Swiss Comm. for Chemistry; Pres., Internatl. Union of Pure and Applied Chemistry.* (**3,** 1951)

Stone, Clement A., Ph.D. Research Div., Sharp and Dohme Div., Merck & Co., West Point, Pa. *Research Assoc. in Pharmacology.* (**3,** 1954)

Stone, David, Ph.D. Worcester Fndn. for Exptl. Biology, Shrewsbury, Mass. *Research Assoc.* (**2,** 1955)

Stone, Gilbert C. H. Ph.D. City College of New York, Dept. of Chemistry, Convent Ave. and 140th St., New York City 31. *Assoc. Prof.* (**2,** 1950)

Stone, William E., Ph.D. Univ. of Wisconsin, Dept. of Physiology, Madison. *Assoc. Prof. of Physiology.* (**1,** 1945)

Storer, John B., M.D. Army Med. Research Lab., Fort Knox, Ky. *Radiobiologist, AUS.* (**4,** 1952)

Stormont, Robert T., Ph.D., M.D. American Med. Assoc., 535 N. Dearborn St., Chicago, Ill. *Dir., Div. of Therapy and Research; Sec. of Council on Pharmacy and Chemistry.* (**3,** 1941)

Storvick, Clara A., Ph.D. Oregon State College, School of Home Economics, Corvallis. *Prof. of Foods and Nutrition and Head of Home Economics Research.* (**5,** 1947)

Stotz, Elmer H., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. of Biochemistry.* (**2,** 1939)

Stoughton, Roger W., Ph.D. Mallinckrodt Chemical Works, 3600 N. Second St., St. Louis, Mo. *Research Chemist.* (**3,** 1939)

Stowell, Robert E., M.D., Ph.D. Univ. of Kansas Med. Center, Dept. of Pathology and Oncology, Kansas City 12. *Prof. and Chairman of Dept.* (**4,** 1952)

Strecker, Harold J., Ph.D. 722 W. 168th St., New York City. *Assoc. Research Scientist, N. Y. State Psychiatric Inst.* (**2,** 1953)

Strehler, Bernard L., Ph.D. Univ. of Chicago, Biochemistry Dept., Chicago 37, Ill. *Asst. Prof.; Research Assoc.* (**2,** 1955)

Strong, Frank M., Ph.D. Univ. of Wisconsin, Madison 6. *Prof. of Biochemistry.* (**2,** 1941)

Struck, Harold Carl, Ph.D. 533 Orah St., Montebello, Calif. (**1,** 1940; **3,** 1952)

Strughold, Hubertus, M.D., Ph.D. School of Aviation Medicine, Dept. of Space Medicine, Randolph AFB, Tex. *Prof. and Chief of Dept.* (**1,** 1951)

Stuart, Charles A., Ph.D. 372 Lloyd Ave., Providence, R. I. *Prof. of Biology, Brown Univ.* (**6,** 1935)

Stumpf, Paul K., Ph.D. Univ. of California, Dept. of Plant Biochemistry, 337 Biochemistry Virus Lab., Berkeley 4. *Assoc. Prof. of Plant Biochemistry.* (**2,** 1950)

Sturgis, Cyrus Cressey, M.D. Simpson Memorial Inst., Ann Arbor, Mich. *Dir. of Thomas Henry Simpson Memorial Inst. for Med. Research; Chairman, Dept. of Medicine, Univ. of Michigan Hospital.* (**4,** 1927)

Sturkie, Paul D., Ph.D. Rutgers Univ., Poultry Science Dept., College of Agriculture, New Brunswick, N. J. *Prof. of Poultry Physiology and Research; Specialist in Poultry Physiology.* (**1,** 1948)

Sturtevant, F. M., Ph.D. G. D. Searle & Co., Div. of Biological Research, Chicago 80, Ill. *Research Biologist.* (**3,** 1955)

Stutzman, Jacob W., Ph.D., M.D. Riker Labs., P. O. Box 3157, Terminal Annex, Los Angeles 54, Calif. *Vice Pres., Research and Development.* (**1,** 1946; **3,** 1948)

Suckling, E. E., M.Sc., M.E.E. State Univ. of New York College of Medicine, Dept. of Physiology, Brooklyn 1, N. Y. *Asst. Prof. of Med. Physics.* (**1,** 1955)

Sugg, John Y., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1938)

Sulkin, S. Edward, Ph.D. Univ. of Texas Southwestern Med. School, Dallas. *Prof. and Chairman of Dept. of Microbiology.* (**6,** 1944)

Sullivan, Michael Xavier, Ph.D. Georgetown Univ., Grad. School, 37th & O Sts., N.W., Washington, D. C. *Research Prof. of Chemistry.* (**2R,** 1909)

Summerson, William H., Ph.D. Chemical Corps Med. Labs., Army Chemical Center, Md. *Chief, Biochemistry Div.* (**2,** 1942)

Sunde, M. L., Ph.D. Univ. of Wisconsin College of Agriculture, Dept. of Poultry Husbandry, Madison 6. *Asst. Prof.* (**5,** 1955)

Sunderman, F. William, M.D., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Dir., Div. of Metabolic Research.* (**2,** 1931)

Sundstroem, Edward S., M.D. 2491 Ellsworth St., Berkeley 4, Calif. *Prof. Emeritus.* (**2R,** 1919)

Sung, Chen-Yu, Ph.D. Dept. of Pharmacology, Tufts College Med. School, Boston, Mass. *Instr.* (**3,** 1953)

Sure, Barnett, Ph.D. Univ. of Arkansas, Fayetteville. *Head of Dept. and Prof. of Agricultural Chemistry.* (**2,** 1923; **5,** 1933)

Surtshin, Adolph, M.D. Washington Univ. School of Medicine, 4580 Scott Ave., St. Louis 10, Mo. *Asst. Prof. of Physiology; Research Assoc. in Gerontology.* (**1,** 1951)

Suter, Emanuel, M.D. Harvard Univ., 25 Shattuck St. Boston 15, Mass. *Asst. Prof. of Bacteriology and Immunology.* (**6,** 1954)

Sutherland, Earl W., Jr., M.D. Western Reserve

Univ. School of Medicine, 2109 Adelbert, Cleveland 6, Ohio. *Prof. of Pharmacology.* (**2,** 1950)

Sutherland, George F., M.D. Dept. of Mental Hygiene, 2218 N. Charles St., Baltimore 18, Md. *Chief, Div. of Psychiatric Education and Training.* (**1,** 1939)

Sutton, T. Scott, Ph.D. Ohio State Univ., Columbus. *Asst. Dean, College of Agriculture.* (**5,** 1936)

Svirbely, Joseph L., Ph.D. Industrial Hygiene Field Headquarters, Div. of Occupational Health, 1014 Broadway, Cincinnati 2, Ohio. *Toxicologist.* (**3,** 1945)

Swain, Robert E., Ph.D. 634 Mirada Ave., Stanford Univ., Calif. *Prof. Emeritus of Chemistry.* (**2R,** 1909)

Swan, H. J., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant in Physiology.* (**1,** 1954)

Swan, Roy Craig, Jr., M.D. Cornell Univ. Med. College, New York City 21. *Assoc. Prof. of Physiology.* (**1,** 1954)

Swann, Howard G., Ph.D. Univ. of Texas Med. School, Dept. of Physiology, Galveston. *Prof. of Physiology.* (**1,** 1940)

Swanson, Marjorie A., Ph.D. Bowman Gray School of Medicine, Dept. of Biochemistry, Winston-Salem 7, N. C. *Asst. Prof.* (**2,** 1950)

Swanson, Pearl P., Ph.D. Iowa State College, Depts. of Food and Nutrition and Home Economics Research, Ames. *Prof. of Nutrition; Asst. Dir., Agric. Exper. Station.* (**5,** 1933)

Swanson, William W., M.D. 2376 E. 71st St., Chicago, Ill. *Asst. Prof. of Pediatrics, Northwestern Univ.* (**2,** 1938)

Sweat, Max L., Ph.D. Western Reserve Univ., Dept. of Physiology, Cleveland 6, Ohio. *Asst. Prof.* (**2,** 1954)

Sweeney, H. Morrow, Ph.D. USAF School of Aviation Medicine, Randolph AFB, Texas. *Dir. of Research; Col.* (**1,** 1939)

Sweet, J. E., M.D., Sc.D. Unadilla, N. Y. *Prof. Emeritus of Surgical Research, Cornell Univ. Med. College.* (**1R,** 1913)

Swendseid, Marian E., Ph.D. Univ. of California, Los Angeles. *Assoc. Prof. of Nutrition and Physiological Chemistry.* (**2,** 1950)

Swift, Raymond W., Ph.D. Pennsylvania State Univ., Dept. of Animal Nutrition, University Park. *Prof. and Head of Dept.* (**5,** 1934)

Swingle, Wilbur Willis, Ph.D. Princeton Univ., Princeton, N. J. *Prof. of Biology.* (**1,** 1924)

Swinyard, Ewart A., Ph.D. Univ. of Utah, Salt Lake City. *Prof. of Pharmacy and Pharmaceutical Research, School of Pharmacy.* (**3,** 1948)

Sydenstricker, V. P., M.D. Med. College of Georgia, Augusta. *Prof. of Medicine.* (**5,** 1944)

Sykes, Joseph F., Ph.D. USDA Dairy Husbandry Research Br., Beltsville, Md. *Physiologist.* (**1,** 1942)

Syverton, Jerome T., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head, Dept. of Bacteriology and Immunology.* (**4,** 1940; **6,** 1947)

Szego, Clara M., Ph.D. Univ. of California, Los Angeles. *Assoc. Prof. of Zoology.* (**1,** 1946)

Szent-Gyorgyi, Albert, Ph.D., M.D. Marine Biological Lab., Inst. for Muscle Research, Woods Hole, Mass. *Research Dir.* (**2,** 1949)

Szepsenwol, Josel, M.D. Univ. of Puerto Rico, School of Tropical Medicine, San Juan 22. *Assoc. Prof. of Anatomy* (**1,** 1948)

Tabor, Herbert, M.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Chief, Sec. on Biochemical Pharmacology.* (**2,** 1954; **3,** 1947)

Tager, Morris, M.D. Emory Univ. Dept. of Bacteriology, Div. of Basic Sciences in Health Services, Emory University, Ga. *Prof. and Chairman of Dept.* (**6,** 1948)

Taggart, John V., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Medicine, 630 W. 168th St., New York City 32. *Assoc. Prof. of Medicine.* (**1,** 1951)

Tahmisian, Theodore N., Ph.D. Argonne Natl. Lab., P.O. Box 299, Lemont, Ill. *Group Leader; Assoc. Biologist.* (**1,** 1951)

Tainter, M. L., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Director.* (**1,** 1929; **3,** 1927)

Talbot, Samuel Armstrong, Ph.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Medicine, Johns Hopkins Med. School.* (**1,** 1940)

Taliaferro, Lucy Graves, Sc.D. Univ. of Chicago, Dept. of Microbiology, Chicago 37, Ill. *Voluntary Research Assoc.; Asst. Prof. in Microbiology.* (**6,** 1952)

Taliaferro, William H., Ph.D. Univ. of Chicago, Dept. of Microbiology, Chicago, Ill. *Eliakim H. Moore Distinguished Service Prof. of Microbiology and Chairman of Dept.* (**6,** 1930)

Talmage, David W., M.D. Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Asst. Prof. of Medicine.* (**6,** 1954)

Talmage, Roy V., Ph.D. Rice Inst., Dept. of Biology, Houston, Texas. *Professor.* (**1,** 1954)

Tamm, Igor, M.D. Rockefeller Inst. Hosp., 66th St. and York Ave., New York City 21. *Assoc.; Assoc. Physician.* (**6,** 1954)

Tannenbaum, Albert, M.D. Michael Reese Hospital, 29th St. & Ellis Ave., Chicago, Ill. *Dir. of Dept. of Cancer Research.* (**4,** 1942)

Tarr, H. L. A., Ph.D. Fisheries Research Board, 898 Richards St., Vancouver, B. C., Canada. *Principal Scientist, Biochemistry Dept.* (**2,** 1950)

Tarver, Harold, Ph.D. Univ. of California, Dept. of Physiological Chemistry, Berkeley 4. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1947)

Tashiro, Shiro, Ph.D., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof.*

Emeritus of Biological Chemistry. (**1R,** 1913; **2R,** 1913)

Tatum, Arthur L., Ph.D., M.D. Service Memorial Inst., Univ. of Wisconsin, Madison. *Prof. Emeritus of Pharmacology.* (**1R,** 1913; **3,** 1919)

Tatum, Edward L., Ph.D. Stanford Univ., Dept. of Biological Sciences, Stanford University, Calif. *Prof. of Biology.* (**2,** 1947)

Tauber, Henry, Ph.D. Venereal Diseases Exptl. Lab., School of Public Health, Univ. of North Carolina, Chapel Hill. *Assoc. Prof. of Exptl. Medicine.* (**2,** 1933)

Taylor, A. N., Ph.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Physiology.* (**1,** 1948)

Taylor, Alton R., Ph.D. Parke, Davis & Co., Research Div., Detroit 32, Mich. *Lab. Dir., Virology.* (**2,** 1947; **6,** 1943)

Taylor, Charles Bruce, M.D. Dept. of Pathology, Presbyterian Hosp., Chicago, Ill. *Assoc. Prof., Univ. of Illinois, College of Medicine.* (**1,** 1952; **4,** 1952)

Taylor, Clara Mae, Ph.D. Columbia Univ. Teachers' College, 525 W. 120th St., New York City 27. *Prof. of Nutrition.* (**5,** 1951)

Taylor, Craig L., Ph.D. Univ. of California, Dept. of Engineering, Los Angeles. *Prof. of Engineering.* (**1,** 1945)

Taylor, Dermot B., M.B., B.Ch., B.A.O. Univ. of California Med. Center, Los Angeles 24. *Prof. of Pharmacology and Chairman of Dept.* (**3,** 1950)

Taylor, Fred A., Ph.D. 320 E. North Ave., N. S., Pittsburgh, Pa. *Biochemist, Singer Memorial Lab.* (**2,** 1933)

Taylor, Haywood M., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Toxicology and Assoc. Prof. of Biochemistry; Biochemist and Toxicologist to Duke Hospital.* (**4,** 1942)

Taylor, Henry Longstreet, Ph.D. Univ. of Minnesota, School of Public Health, Minneapolis. *Assoc. Prof. of Physiological Hygiene.* (**1,** 1944)

Taylor, John Fuller, Ph.D. Univ. of Louisville, School of Medicine, Dept. of Biochemistry, Louisville 2, Ky. *Prof. and Chairman of Dept.* (**2,** 1944)

Taylor, Julius D., Ph.D. Abbott Labs., Dept. of Pharmacology, North Chicago, Ill. *Chemical Pharmacologist.* (**3,** 1953)

Taylor, M. Wight, Ph.D. New Jersey Agricultural Exper. Station, New Brunswick. *Prof. and Chairman of Dept. of Agric. Biochemistry, Rutgers Univ.* (**5,** 1944)

Taylor, Norman Burke, M.D. 21 Ardwold Gate, Toronto 10, Ontario, Canada. (**1,** 1922)

Taylor, Reginald Murray, M.D. Columbia Univ., College of Physicians and Surgeons, 722 W. 168th St., New York City 32. *Assoc., Dept. of Psychiatry; Assoc. Research Scientist, N.Y. State Psychiatric Inst.* (**1,** 1954)

Taylor, Richard M., M.D., D.P.H. Naval Med. Research Unit #3, American Embassy, Cairo, Egypt, % O. P. 32 Mail and Dispatch Section, Dept. of Navy, Washington 25, D. C. (**6,** 1949)

Taylor, Robert D., M.D. Marquette Univ. Med. School, Milwaukee, and Medical Center, Marshfield, Wis. (**1,** 1945)

Teague, Robert S., Ph.D., M.D. Med. College of Alabama and Univ. of Alabama School of Dentistry, Dept. of Pharmacology, Birmingham 5. *Prof. and Chairman of Dept.* (**3,** 1942)

Teeri, Arthur E., Ph.D. Univ. of New Hampshire, Durham. *Prof. and Chairman, Dept. of Agricultural and Biological Chemistry.* (**5,** 1953)

Telfer, William H., Ph.D. Univ. of Pennsylvania, Zoological Lab., Philadelphia. *Asst. Prof.* (**6,** 1954)

Templeton, Roy D., M.D. 133 Handley St., San Antonio, Texas. (**1,** 1935)

Ten Broeck, Carl, M.D. 94 Battle Rd., Princeton, N. J. (**4R,** 1932)

Teply, Lester J., Ph.D. 5058 Lake Mendota Drive, Madison, Wis. *Biochemist, Wisconsin Alumni Research Fndn.* (**2,** 1950; **5,** 1954)

Tepperman, Helen M., Ph.D. State Univ. of New York, Upstate Med. Ctr., Syracuse. *Asst. Prof. of Pharmacology* (**1,** 1955)

Tepperman, Jay, M.D. State Univ. of New York, Upstate Med. Ctr., Dept. of Pharmacology, Syracuse, N. Y. *Prof. of Exptl. Medicine.* (**1,** 1944; **3,** 1952)

Terplan, Kornel L., M.D. Univ. of Buffalo School of Medicine, Buffalo, N. Y. *Prof. of Pathology and Head of Dept.* (**4,** 1935)

Terry, Roger, M.D. Armed Forces Inst. of Pathology, Washington 25, D. C. *Capt., USAF (MC).* (**4,** 1949)

Thannhauser, S. J., M.D., Ph.D. Pratt Diagnostic Hospital, 30 Bennet St., Boston, Mass. *Sr. Physician; Prof. of Clin. Medicine, Tufts Med. School.* (**2,** 1937)

Thatcher, Jonathan S., M.D., Ph.D. 509 Cypress Ave., San Bruno, Calif. (**1,** 1949)

Thauer, Rudolf, M.D. W. G. Kerckhoff-Inst., d. Max-Planck-Gesellschaft, Bad Nauheim, U. S. Zone, Germany. *Dir.; Prof. and Dir., Dept. of Physiology, Univ. of Giessen.* (**1,** 1949)

Thayer, Sidney Allen, Ph.D. 1402 S. Grand Blvd., St. Louis 22, Mo. *Prof. of Biochemistry, St. Louis Univ. School of Medicine.* (**2,** 1933)

Therman, Per-Olof, M.D. 111 N. 49th St., Philadelphia 39, Pa. *Dir. of Labs., Inst. of Pennsylvania Hosp.* (**1,** 1950)

Thesleff, Stephen, M.D. Univ. of Lund, Lund, Sweden. (**3,** 1953)

Thienes, Clinton H., M.D., Ph.D. Inst. of Med. Research, Huntington Memorial Hosp., Pasadena 2, Calif. *Director.* (**3,** 1928)

Thomas, Arthur W., Ph.D. Columbia Univ., New York City 27. *Prof. of Chemistry.* (**2,** 1924)

Thomas, Byron H., Ph.D. Iowa State College, Ames. *Prof. of Chemistry, Iowa Agric. Exper. Station.* (**5,** 1933)

Thomas, Caroline Bedell, M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Medicine, Johns Hopkins Univ. School of Medicine.* (**1,** 1939)

Thomas, J. Earl, M.D. Jefferson Med. College, Philadelphia, Pa. *Prof. of Physiology.* (**1,** 1922; **3,** 1924)

Thomas, Lewis, M.D. New York Univ., College of Medicine, New York, N. Y. *Chairman, Dept. of Pathology.* (**6,** 1950)

Thomas, Lloyd E., Ph.D. Univ. of Missouri School of Medicine, Dept. of Biochemistry, Columbia. *Assoc. Prof.* (**2,** 1951)

Thompson, Marvin R., Ph.D. 67 Greenwich Ave., Stamford, Conn. *Pres. and Dir. of Research, Marvin R. Thompson, Inc.* (**3,** 1944)

Thompson, Randall L., Sc.D., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head, Microbiology Sec.* (**6,** 1937)

Thompson, Richard, M.D. Univ. of Colorado, 4200 E. 9th Ave., Denver 20. *Prof. of Microbiology.* (**6,** 1951)

Thompson, William R., Ph.D. 1 Darroch Rd., Delmar, N. Y. *Sr. Biochemist, Div. of Labs. and Research, New York State Dept. of Health.* (**2,** 1934)

Thomson, David Landsborough, Ph.D. McGill Univ., Montreal, Quebec, Canada. *Prof. of Biochemistry and Dean of Faculty of Grad. Studies.* (**2,** 1929)

Thomson, John D., Ph.D. State Univ. of Iowa, 240 Med. Labs., Iowa City. *Assoc. Prof. of Physiology.* (**1,** 1951)

Thorn, George Widmer, M.D. Peter Bent Brigham Hospital, Boston, Mass. *Physician-in-Chief; Prof. of Medicine, Harvard Univ.* (**1,** 1939)

Thorne, Curtis B., Ph.D. MB Division, Camp Detrick, Frederick, Md. *Chief, Microbial Physiology Branch.* (**2,** 1955)

Thorp, W. T. S., D.V.M., M.S. Univ. of Minnesota School of Veterinary Medicine, St. Paul 1, Minn. *Dean.* (**4,** 1948)

Tidwell, Herbert C., Ph.D. Univ. of Texas Southwestern Med. School, Dallas. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1948; **5,** 1955)

Tillett, William S., M.D. New York Univ. College of Medicine, Dept. of Medicine, 550 First Ave., New York City. *Prof. of Medicine.* (**6,** 1927)

Tilt, Jennie, Ph.D. 1011 Lincoln Blvd., Santa Monica, Calif. (**5R,** 1939)

Timiras, Paola S., M.D., Ph.D. Univ. of California School of Medicine, Dept. of Physiology, Berkeley 4. (**3,** 1952)

Tipson, R. Stuart, Ph.D., D.Sc. Mellon Inst. of Industrial Research, Univ. of Pittsburgh, Pittsburgh, Pa. *Sr. Fellow, Medicinal Chemistry Fellowship.* (**2,** 1937)

Tipton, Samuel R., Ph.D. Univ. of Tennessee, Dept. of Zoology, Knoxville. *Prof. of Zoology.* (**1,** 1940)

Tislow, Richard F., M.D. Wyeth Inst. for Med. Research, Radnor, Pa. *Chief Pharmacologist.* (**1,** 1944; **3,** 1950)

Titus, Harry W., Ph.D. Lime Crest Research Lab., R.D. 1, Box 67, Newton, N. J. *Technical Counsellor and Dir. of Research.* (**2,** 1929; **5,** 1933)

Tobias, Julian M., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Physiology.* (**1,** 1944)

Tocantins, Leandro Maués, M.D., Jefferson Med. College, Philadelphia, Pa. *Prof. of Clin. & Exptl. Medicine.* (**1,** 1939)

Todd, Wilbert R., Ph.D. Univ. of Oregon Med. School, Portland. *Prof. of Biochemistry.* (**2,** 1948; **5,** 1948)

Todhunter, Elizabeth Neige, Ph.D. Univ. of Alabama, University. *Dean, School of Home Economics.* (**5,** 1939)

Toennies, Gerrit, Ph.D. Inst. for Cancer Research and Lankenau Hospital Research Inst., Philadelphia 11, Pa. *Head, Dept. of General Biochemistry.* (**2,** 1934)

Tolbert, N. Edward, Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Sr. Biochemist.* (**2,** 1953)

Tolle, Chester D., Ph.D. Federal Security Agency, Food and Drug Admin., Washington, D. C. *Asst. Chief, Div. of Nutrition.* (**5,** 1942)

Toman, James E. P., Ph.D. Chicago Med. School, Dept. of Anatomy, Chicago, Ill. *Asst. Prof.* (**1,** 1945; **3,** 1950)

Tomarelli, Rudolph M., Ph.D. Wyeth Inst. for Med. Research, Radnor, Pa. *Sr. Investigator.* (**2,** 1950; **5,** 1950)

Tomlinson, Wray Joseph, M.D. St. Luke's Hospital, Jacksonville, Fla. *Chief of Labs.* (**4,** 1945)

Tompkins, Edna H., M.D. Cancer Research Inst., New England Deaconess Hospital, 195 Pilgrim Rd., Boston 15, Mass. *Research Assoc.* (**4,** 1941)

Topper, Yale J., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. (**2,** 1952)

Toth, Louis A., Ph.D. Louisiana State Univ. School of Medicine, Dept. of Physiology, New Orleans 13. *Prof. of Physiology.* (**1,** 1940)

Totter, John R., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biochemist.* (**2,** 1946)

Tourtellotte, Dee, D.Sc. Charles B. Knox Gelatine Co., 4th and Erie Sts., Camden 2, N. J. *Research Dir.* (**5,** 1935)

Touster, Oscar, Ph.D. Vanderbilt Univ., School of Medicine, Dept. of Biochemistry. Nashville, Tenn. *Assoc. Prof.* (**2,** 1952)

Tower, Sarah Sheldon, M.D., Ph.D. 11 E. Chase St., Baltimore 2, Md. *Asst. Prof. of Psychiatry, Johns Hopkins Univ. Med. School.* (**1,** 1932)

Trager, William, M.D., Ph.D. Rockefeller Inst. for Med. Research, 66th and York Ave., New York City 21. *Assoc. Member.* (**4,** 1947)

Trapold, Joseph H., Ph.D. Louisiana State Univ. Med. School, Dept. of Pharmacology, New Orleans. *Instructor.* (**3,** 1955)

Traub, Frederick B., M.D. 405 E. 72nd St., New York City 21. *Microbiologist, Jewish Hospital of Brooklyn.* (**6,** 1946)

Travell, Janet, M.D. Cornell Univ. Med. College, New York City. *Assoc. Prof. of Clin. Pharmacology.* (**3,** 1933)

Travis, Lee Edward, Ph.D. Univ. of Southern California, Los Angeles. *Prof. of Psychology.* (**1,** 1929)

Treadwell, Carleton R., Ph.D. George Washington Univ. School of Medicine, Dept. of Biochemistry, 1335 H St., N. W., Washington, D. C. *Prof. of Biochemistry.* (**2,** 1944; **5,** 1949)

Treffers, Henry P., Ph.D. Yale Med. School, Dept. of Microbiology, New Haven, Conn. *Prof. of Microbiology.* (**6,** 1942)

Trimble, Harry C., Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Edward Stickney Wood Asst. Prof. of Biological Chemistry.* (**2,** 1929; **5,** 1936)

Truant, Aldo P., Ph.D. Astra Pharmaceutical Products, Inc., Worcester 6, Mass. *Dir., Biological Research; Assoc. Prof. of Pharmacology, Tufts Med. School.* (**3,** 1955)

Truitt, Edward B., Jr., Ph.D. Dept. of Pharmacology, Univ. of Maryland, Baltimore. (**3,** 1955)

Trurnit, Hans Joachim, M.D. Med. Labs., Army Chemical Center, Md. *Chief, Physicochemical Br.* (**1,** 1950)

Tschirgi, Robert D., M.D., Ph.D. Univ. of California School of Medicine, Depts. of Physiology and Anatomy, Los Angeles 24. *Assoc. Prof.* (**1,** 1951)

Tuba, Jules, Ph.D. Univ. of Alberta, Dept. of Biochemistry, Edmonton, Alberta, Canada. *Prof.* (**2,** 1950)

Tuft, Louis, M.D. 1530 Locust St., Philadelphia, Pa. *Clin. Prof. of Medicine, Temple Univ. Med. School; Chief of Clinic of Allergy and Applied Immunology, Temple Univ. Hospital.* (**6,** 1928)

Tullis, John Louis, M.D. New England Deaconess Hosp., Cancer Research Inst., Boston 15, Mass. *Pathologist.* (**4,** 1952)

tum Suden, Caroline, Ph.D. Med. Labs., Army Chemical Center, Md. *Pharmacologist, Neurology Br.* (**1,** 1936)

Tunturi, Archie Robert, Ph.D., M.D. Univ. of Oregon Med School, Portland. *Asst. Prof. of Anatomy.* (**1,** 1946)

Turner, Abby H., Ph.D. Dickinson House, S. Hadley, Mass. *Emeritus Prof. of Physiology, Mount Holyoke College.* (**1R,** 1928)

Turner, Robert A., Ph.D. New England Inst. for Med. Research, Ridgefield, Conn. *Chief, Biochemistry Div.* (**2,** 1952)

Tuttle, Waid Wright, Ph.D. State Univ. of Iowa, Iowa City. *Prof. of Physiology.* (**1,** 1925)

Tyler, Albert, Ph.D. California Inst. of Technology, Pasadena, Calif. *Prof. of Embryology.* (**6,** 1946)

Tyler, David B., Ph.D. Univ. of Puerto Rico School of Medicine, Dept. of Pharmacology, San Juan 22. *Prof. and Head of Dept.* (**1,** 1943; **3,** 1951)

Tytell, Alfred A., Ph.D. Sharp & Dohme, Inc., Antibiotics Dept., West Point, Pa. *Research Assoc.* (**2,** 1951; **6,** 1950)

Udenfriend, Sidney, Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Lab. of Chemical Pharmacology, Bethesda 14, Md. *Chief, Sec. of Cellular Pharmacology.* (**2,** 1950)

Umbarger, H. Edwin, Ph.D. Harvard Med. School, Dept. of Bacteriology and Immunology, Boston 15, Mass. *Associate.* (**2,** 1954)

Umbreit, Wayne W., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Asst. Dir.* (**2,** 1947)

Underkofler, Leland A., Ph.D. Takamine Lab., Inc., Clifton, N. J. *Director.* (**2,** 1953)

Ungar, Georges, M.D., D.Sc. U. S. Vitamin Corp., Dept. of Pharmacology, Yonkers, N. Y. *Director.* (**1,** 1950)

Unger, Lester J., M.D. New York Univ.-Bellevue Med. Ctr., New York City 28. *Dir., Blood and Plasma Bank.* (**6,** 1952)

Unna, Klaus R. W., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Prof., and Head of Dept. of Pharmacology.* (**1,** 1941; **3,** 1944; **5,** 1942)

Upton, Arthur C., M.D. Biology Div., Oak Ridge Natl. Lab., Oak Ridge, Tenn. *Pathologist.* (**4,** 1954)

Upton, Morgan, Ph.D. Rutgers Univ., Dept. of Psychology, New Brunswick, N. J. (**1,** 1934)

Urban, Frank, Ph.D., M.D. 302 Northern Bldg., Green Bay, Wis. *Physician and Surgeon; Acting Health Commissioner, City of Green Bay.* (**2,** 1932)

Utter, Merton F., Ph.D. Western Reserve Univ., Dept. of Biochemistry, Cleveland, Ohio. *Assoc. Prof.* (**2,** 1946)

Vahlteich, Ella McCollum, Ph.D. 310 Walnut St., Englewood, N. J. *Nutrition Specialist, Nutrition Research Br., USDA Field Service, Columbia Univ.* (**5,** 1933)

Valle, J. R., M.D. Escola Paulista de Medicina, Caixa Postal 7144, Sao Paulo, Brazil. *Prof. of Pharmacology.* (**3,** 1947)

Van Arman, C. G., Ph.D. G. D. Searle and Co., Box 5110, Chicago 80, Ill. *Pharmacologist.* **(3,** 1953)

Vanatta, John C., M.D. Univ. of Texas Southwestern Med. School, Dept. of Physiology, Dallas. *Assoc. Prof.* **(1,** 1955)

Van Bruggen, John T., Ph.D. Univ. of Oregon Med. School, Portland. *Assoc. Prof. of Biochemistry.* **(2,** 1952)

Vander Brook, Milton J., Ph.D. The Upjohn Co., Kalamazoo 99, Mich. *Head, Dept. of Pharmacology.* **(3,** 1950)

Van Dyke, H. B., Ph.D., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St. New York City 32. *Hosack Prof. of Pharmacology.* **(1,** 1925; **3,** 1927)

van Harreveld, Anthonie, M.D. California Inst. of Technology, Pasadena. *Prof. of Physiology.* **(1,** 1941)

Van Liere, Edward J., M.D., Ph.D. West Virginia Univ. School of Medicine, Morgantown. *Prof. of Physiology and Dean.* **(1,** 1927)

Van Maanen, Evart Florus, Ph.D. Univ. of Cincinnati, College of Medicine, Dept. of Pharmacology, Eden and Bethesda Aves., Cincinnati 19, Ohio. *Asst. Prof.* **(3,** 1951)

Van Middlesworth, Lester, Ph.D., M.D. Univ. of Tennessee, Memphis. *Assoc. Prof. of Physiology; Instr. of Medicine.* **(1,** 1948)

Van Slyke, Donald D., Ph.D., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Chemist, Med. Dept.; Counselor, Lilly Research Grants; Member Emeritus, Rockefeller Inst.* **(2,** 1908)

van Wagenen, Gertrude, Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof.* **(1,** 1932)

van Wagtendonk, Willem J., Ph.D. Indiana Univ., Dept. of Zoology, Bloomington. *Professor.* **(2,** 1946)

Van Winkle, Walton, Jr., M.D. Ethicon, Inc., Research Div., New Brunswick, N. J. *Dir. of Research.* **(3,** 1939)

Varney, Philip L. Washington Univ. School of Medicine, St. Louis, Mo. *Asst. Prof. of Bacteriology.* **(6,** 1948)

Vars, Harry M., Ph.D. Univ. of Pennsylvania Med. School, Harrison Dept. of Surgical Research, Philadelphia 4. *Prof. of Biochemistry in Surgical Research.* **(2,** 1935; **5,** 1935)

Vaughan, John H., M.D. Med. College of Virginia, 1200 E. Broad St., Richmond. *Asst. Prof. of Medicine.* **(6,** 1954)

Velardo, Joseph Thomas, Ph.D. Yale Univ. School of Medicine, Dept. of Anatomy, New Haven 11, Conn. *Asst. Prof.* **(1,** 1954)

Velick, Sidney Frederick. Washington Univ. School of Medicine, Dept. of Biochemistry, Scott and Euclid Ave., St. Louis 10, Mo. *Assoc. Prof. of Biochemistry.* **(2,** 1946)

Vennesland, Birgit, Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago, Ill. *Assoc. Prof.* **(2,** 1944)

Venning, Eleanor H., Ph.D. Univ. Clinic, Royal Victoria Hospital, Pine Ave., Montreal, Quebec, Canada. *Assoc. Prof. of Exptl. Medicine, McGill Univ.* **(2,** 1938)

Vernon, Leo P., Ph.D. Brigham Young Univ., Chemistry Dept., Provo, Utah. *Assoc. Prof.* **(2,** 1955)

Verzeano, Marcel, M.D. Univ. of California at Los Angeles Med. School, Dept. of Biophysics, Los Angeles 24. *Asst. Prof.* **(1,** 1955)

Vestling, Carl Swensson, Ph.D. Univ. of Illinois, Noyes Lab., Urbana, Ill. *Prof. of Biochemistry.* **(2,** 1946)

Vickery, Hubert B., Ph.D. Connecticut Agric. Exper. Station, New Haven. *Biochemist in Charge, Dept. of Biochemistry; Lecturer in Physiological Chemistry, Yale Univ.* **(2,** 1923)

Villee, Claude A., Jr., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Biological Chemistry.* **(2,** 1948)

Virtue, Robert W., Ph.D., M.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver 20. *Prof. of Anesthesiology.* **(2,** 1939)

Vishniac, Wolf, Ph.D. Yale Univ., Dept. of Microbiology, 310 Cedar St., New Haven 11, Conn. *Asst. Prof.* **(2,** 1954)

Visscher, Frank E., Ph.D. Saginaw County Hosp., Saginaw, Mich. *Research Biochemist.* **(1,** 1947)

Visscher, Maurice B., Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Physiology.* **(1,** 1927)

Visser, Donald W., Ph.D. Univ. of Southern California, Los Angeles 7. *Asst. Prof. of Biochemistry.* **(2,** 1952)

Voegtlin, Carl, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Lecturer in Pharmacology.* **(1R,** 1908; **2R,** 1908; **3R,** 1908)

Vogel, F. Stephen, M.D. Cornell Univ. Med College, 1300 York Ave., New York City 21. *Assoc. Prof. of Pathology.* **(4,** 1951)

Vogel, Peter, M.D. 51 East 90th St., New York City, N. Y. **(6,** 1951)

Volk, Bruno W., M.D. Jewish Chronic Disease Hosp., Brooklyn 3, N. Y. *Dir. of Labs.* **(4,** 1954)

Volkin, Elliot, Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Sr. Biochemist.* **(2,** 1953)

von Frisch, Karl. Zoological Inst., Univ. of Munich, Munich, Germany. **(1H,** 1952)

von Haam, Emmerich, M.D. Ohio State Univ., Columbus. *Prof. of Pathology.* **(4,** 1938)

Von Korff, Richard W., Ph.D. Univ. of Minnesota, Dept. of Pediatrics, Room 423a Heart Hosp., Minneapolis 14. *Research Assoc.* **(2,** 1954)

Von Oettingen, W. F., M.D., Ph.D. Inst. of Ar-

thritis and Metabolic Diseases, Lab. of Pharmacology and Toxicology, Bethesda 14, Md. *Med. Officer, Toxicology.* (**3,** 1925)

Voris, LeRoy, Ph.D. Natl. Research Council, 2101 Constitution Ave., Washington 25, D. C. *Exec. Sec., Food and Nutrition Board.* (**5,** 1949)

Vorwald, Arthur J., Ph.D., M.D. Wayne Univ. College of Medicine, 1401 Rivard St., Detroit 7, Mich. *Prof. of Industrial Medicine.* (**4,** 1937)

Vos, Bert J., Ph.D., M.D. Food and Drug Admin., Div. of Pharmacology, Washington, D. C. *Asst. Chief.* (**3,** 1941)

Wachstein, Max, M.D. St. Catherine's Hospital, Brooklyn, N. Y. *Dir. of Lab.* (**4,** 1947)

Waddell, James, Ph.D. Grasselli Chemicals Dept., E. I. du Pont de Nemours and Co., Wilmington 98, Del. *Mgr., Technical Development, Nutrition Sec.* (**2,** 1930; **5,** 1935)

Waelsch, Heinrich, M.D., Sc.D. 722 West 168th St., New York City 32. *Prin. Research Pharmacologist, N. Y. State Psychiatric Inst. and Hospital; Prof. of Biochemistry, Columbia Univ.* (**2,** 1941)

Wagman, Irving H., Ph.D. Mt. Sinai Hosp., Dept. of Neurology, New York City 29. (**1,** 1946)

Wagner, Henry G., M.D. Naval Med. Research Inst., Bethesda 14, Md. *Cdr., MC, USN.* (**1,** 1955)

Wagner, Robert R., M.D. Yale Univ., Dept. of Medicine, 789 Howard Ave., New Haven, Conn. *Asst. Prof. of Medicine; Assoc. Physician.* (**6,** 1953)

Wagner-Jauregg, Theodor, Ph.D. B. Siegfried A.G., Zofingen, Switzerland. *Chief, Chemical Labs.* (**2,** 1951)

Wainio, Walter W., Ph.D. Rutgers Univ., Bureau of Biological Research, Box 515, New Brunswick, N. J. *Assoc. Prof. of Biochemistry.* (**2,** 1950)

Waisman, Harry A., M.D., Ph.D. Univ. of Wisconsin Med. School, Dept. of Pediatrics, Madison 6. *Assoc. Prof. of Pediatrics.* (**2,** 1944)

Wakerlin, George E., Ph.D., M.D. Univ. of Illinois Med. School, 1853 W. Polk St., Chicago. *Prof. and Head of Dept. of Physiology.* (**1,** 1933; **3,** 1934)

Wakim, Khalil G., M.D., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant; Prof. of Physiology, Mayo Foundation.* (**1,** 1942; **3,** 1951)

Waksman, Byron H., M.D. Harvard Univ. Med. School, Boston, Mass. *Assoc. in Bacteriology and Immunology.* (**6,** 1950)

Walcott, William W., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Assoc. Prof.* (**1,** 1947)

Wald, George, Ph.D. Harvard Univ., Biological Labs., Cambridge 38, Mass. *Prof. of Biology.* (**2,** 1950)

Waldron, Jerome M., M.D. Temple Univ. School of Medicine, Dept. of Physiology, Broad and Ontario Sts., Philadelphia 40, Pa. *Assoc. Prof.* (**1,** 1952)

Walker, A. Earl, M.D. 601 N. Broadway, Baltimore 5, Md. *Prof. of Neural Surgery, The Johns Hopkins Univ.* (**1,** 1950)

Walker, Arthur M., M.D. Veterans Admin., Washington 25, D. C. *Chief, Research and Education, TB Service.* (**1,** 1932; **3,** 1939)

Walker, Burnham S., Ph.D., M.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston, Mass. *Prof. of Biochemistry.* (**2,** 1940)

Walker, James B., Ph.D. Univ. of Texas, Biochemical Inst., Austin. *Research Scientist IV.* (**2,** 1955)

Walker, Sheppard M., Ph.D. Univ. of Louisville School of Medicine, 101 W. Chestnut St., Louisville, Ky. *Assoc. Prof. of Physiology.* (**1,** 1946)

Wall, Patrick David, M.A., B.M., B.Ch. Massachusetts Inst. of Technology, 20A 213, Cambridge. *Staff; Instructor, Harvard Univ.* (**1,** 1953)

Wallen-Lawrence, Zonja, Ph.D. 4534 W. Pine Blvd., St. Louis 8, Mo. (**2,** 1937)

Walter, Annabel W. 86–42 251st St., Bellerose 6, N. Y. *Bacteriologist.* (**6,** 1946)

Walter, Carl W., M.D. 721 Huntington Ave., Boston, Mass. *Assoc. Clin. Prof. of Surgery, Harvard Med. School; Surgeon, Peter Bent Brigham Hosp.* (**4,** 1942)

Walters, Orville S., Ph.D., M.D. 1272 Medford Ave., Topeka, Kan. *Physician.* (**1,** 1936)

Walton, Robert P., Ph.D., M.D. Med. College of South Carolina, Charleston. *Prof. of Pharmacology.* (**3,** 1933)

Walton, Seth T., V.M.D., Ph.D. State of North Carolina Lab. of Hygiene, Raleigh. *Bacteriologist.* (**6,** 1936)

Walzer, Matthew, M.D. 20 Plaza St., Brooklyn, N. Y. *Consultant in Allergy, Jewish Hospital of Brooklyn.* (**6,** 1924)

Wang, Chi Che, Ph.D., VA Hosp., Topeka, Kans. *Chief Biochemist.* (**2,** 1922; **5,** 1933)

Wang, Chih Hsing, Ph.D. Oregon State College, Dept. of Chemistry, Corvallis. *Assoc. Prof.* (**2,** 1955)

Wang, Shih-Chun, M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1,** 1943; **3,** 1952)

Wangeman, Clayton P., M.D. Associated Anesthesiologists, 1110 Harvard Ave., Seattle 22, Wash. (**3,** 1946)

Wangensteen, Owen Harding, M.D. Univ. Hospital, Minneapolis 14, Minn. *Prof. of Surgery, Univ. of Minnesota.* (**1,** 1947; **4,** 1931)

Ward, Arthur A., Jr., M.D. Univ. of Washington, School of Medicine, Div. of Neurosurgery, Seattle. *Prof. of Surgery Neurosurgery; Head of Div.* (**1,** 1949)

Ward, Robert, M.D. New York Univ. College of Medicine, Dept. of Pediatrics, 550 First Ave., New York City 16. *Professor.* (**6,** 1951)

Ward, Walter E., Ph.D., M.D. Cutter Labs., Fourth and Parker Sts., Berkeley 10, Calif. *Med. Dir.* (**6,** 1947)

Ware, Arnold G., Ph.D. Los Angeles County Hospital, Main Lab., 1200 N. State St., Los Angeles 33, Calif. *Head Chemist; Assoc. Prof., Dept. of Biochemistry, Univ. of Southern California.* (**2,** 1949)

Warner, Emory D., M.D. Med. Labs. Bldg., Iowa City, Ia. *Prof. and Head of Dept. of Pathology.* (**4,** 1937)

Warner, Robert C., Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Assoc. Prof. of Biochemistry.* (**2,** 1946)

Warren, James V., M.D. Duke Univ., School of Medicine, Dept. of Medicine, Durham, N. C. *Prof. of Medicine.* (**1,** 1947)

Warren, Joel. U. S. Embassy, Stockholm, Sweden. (**6,** 1949)

Warren, Marshall R., Ph.D. Mead Johnson Research Labs., Evansville 21, Ind. *Dir., Div. of Pharmaceutical Research and Development.* (**3,** 1948)

Warren, Shields, M.D. 194 Pilgrim Rd., Boston, Mass. *Prof. of Pathology, Harvard Med. School.* (**4,** 1929)

Wartman, William Bechmann, M.D. Northwestern Univ., 303 East Chicago Ave., Chicago 11, Ill. *Morrison Prof. and Chairman of Dept. of Pathology.* (**4,** 1940)

Wasserman, Karlman, Ph.D. Tulane Univ. School of Medicine, Dept. of Physiology, New Orleans, La. *Instructor.* (**1,** 1954)

Wasteneys, Hardolph, Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. Emeritus of Biochemistry.* (**2R,** 1915)

Waterman, Robert E., B.S. Schering Corp., 60 Orange St., Bloomfield, N. J. *Vice-Pres.* (**2,** 1940)

Waters, Ralph Milton, M.D. R.R. #3, Box 433, Orlando, Fla. (**3R,** 1937)

Watson, Barbara K., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Research Assoc. in Bacteriology and Immunology.* (**6,** 1953)

Watson, Cecil J., M.D. University Hospital, Dept. of Medicine, Minneapolis, Minn. *Prof. of Medicine.* (**2,** 1952)

Watson, Dennis W., Ph.D. Univ. of Minnesota Med. School, Dept. of Bacteriology and Immunology, Minneapolis. *Professor.* (**6,** 1949)

Watson, John B., Ph.D. Box 526, Westport, Conn. (**1,** 1907)

Watts, Daniel T., Ph.D. Univ. of West Virginia Med. School, Dept. of Pharmacology, Morgantown. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1950)

Waud, Russell A., M.D., Ph.D. Univ. of Western Ontario Med. School, London, Ontario, Canada. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1931)

Waugh, David F., Ph.D. Massachusetts Inst. of Technology, Dept. of Biology, Cambridge. *Prof. of Biophysics.* (**1,** 1943)

Way, E. Leong, Ph.D. Univ. of California Med. Center, San Francisco. *Assoc. Prof. of Pharmacology; PHS Postdoctoral Fellow, Dept. of Pharmacology, Univ. of Berne (1955–56).* (**3,** 1947)

Wearn, Joseph T., M.D. Lakeside Hosp., Cleveland 6, Ohio. *Dean, Western Reserve Univ. School of Medicine.* (**1,** 1921)

Weatherby, J. H., Ph.D. Med. College of Virginia, Dept. of Physiology and Pharmacology, Richmond. *Assoc. Prof. of Pharmacology.* (**3,** 1941)

Weaver, Lawrence C., Ph.D. Pitman-Moore Co., Indianapolis 6, Ind. *Pharmacologist.* (**3,** 1955)

Weber, Clarence J., M.D., Ph.D. 7365 Pershing Ave., University City 5, Mo. (**2,** 1931)

Webster, Bruce, M.D., C.M. Cornell Univ. Med. College, 525 E. 68th St., New York City. *Assoc. Prof. of Medicine; Assoc. Attending Physician, New York Hospital.* (**5,** 1935)

Webster, George C., Ph.D. Ohio State Univ., Dept. of Agric. Biochemistry, Columbus 10, *Assoc. Prof.* (**2,** 1955)

Wégria, René, M.D. Presbyterian Hospital, Dept. of Medicine, 622 W. 168th St., New York City. *Asst. Prof. of Medicine.* (**1,** 1941; **3,** 1950)

Weichert, Charles K., Ph.D. Univ. of Cincinnati, Cincinnati, Ohio. *Prof. of Zoology.* (**1,** 1935)

Weichsel, Manfred, M.D. 47–07 41 St., Sunnyside, L. I., N. Y. (**6,** 1953)

Weichselbaum, Theodore E., Ph.D. Washington Univ. School of Medicine, Dept. of Surgery, 4580 Scott Ave., St. Louis 10, Mo. *Asst. Prof. of Experimental Surgery.* (**2,** 1950)

Weil, Alfred J., M.D. The Bronx Hospital, New York City. *Dir. of Dept. of Bacteriology.* (**6,** 1940)

Weil, Arthur, M.D. 115-06 Park Lane South, Kew Gardens, L. I., N. Y. (**4,** 1940)

Weil, Leopold, Ph.D. USDA Eastern Utilization Research Br., Philadelphia 18, Pa. *Chemist.* (**2,** 1942)

Weil, Marvin Lee, M.D. 612 71st St., Miami Beach, Fla. (**6,** 1950)

Weinhouse, Sidney, Ph.D. Lankenau Hospital Research Inst., Fox Chase, Philadelphia 11, Pa. *Head, Metabolic Chemistry.* (**2,** 1948)

Weir, Everett G., M.D., Ph.D. 231 S. 13th Ave., Maywood, Ill. (**1,** 1941)

Weiser, Russell S., Ph.D. Univ. of Washington School of Medicine, Seattle 5. *Dept. of Microbiology, Prof. of Immunology.* (**6,** 1948)

Weiss, Charles, Ph.D., M.D. Albert Einstein Med. Center, Northern Div., York and Tabor Rds.,

Philadelphia, Pa. *Head, Div. of Microbiology.* (4, 1934; 6, 1920)

Weiss, Emil, M.D., Ph.D. 5036 Bernard St., Chicago, Ill. *Pathologist, People's Hosp.* (6R, 1927)

Weiss, Paul, Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Member.* (1, 1936)

Weissman, Norman, Ph.D. Maimonides Hospital of Brooklyn, 4802 10th Ave., Brooklyn 19, N. Y. *Chemist; Assoc. Prof. of Medicine, State Univ. of New York College of Medicine.* (2, 1951)

Welch, Arnold D., Ph.D., M.D. Yale Univ. School of Medicine, Dept. of Pharmacology, 333 Cedar St., New Haven 11, Conn. *Prof. and Chairman of Dept.* (2, 1950; 3, 1942; 5, 1944)

Welch, Henry, Ph.D. U. S. Food and Drug Admin., Rm. 6171 S. Agriculture Bldg., Washington, D. C. *Dir., Div. of Antibiotics.* (6, 1932)

Weld, Charles Beecher, M.D. Dalhousie Univ., Halifax, N.S., Canada. *Prof. of Physiology.* (1, 1936)

Weld, Mrs. Julia T. Cornell Univ. Med. College, Dept. of Public Health, New York City 21. *Research in Parasitology.* (6, 1920)

Welker, William H., Ph.D., Sc.D. 534 N. Elmwood Ave., Oak Park, Ill. *Prof. Emeritus of Biological Chemistry, Univ. of Illinois College of Medicine.* (2R, 1906)

Weller, Carl Vernon, M.D. 1130 Fair Oaks Parkway, Ann Arbor, Mich. *Prof. and Chairman of Dept. of Pathology, Univ. of Michigan.* (4, 1923)

Weller, Thomas H., M.D. Harvard School of Public Health, Boston, Mass. *Richard P. Strong Prof. of Tropical Public Health; Head of Dept.* (6, 1952)

Wells, Herbert S., M.D. Veterans Hospital, 54th St. and 48th Ave. S., Minneapolis, Minn. *Dir. of Research* (1, 1932)

Wells, Ibert C., Ph.D. State Univ. of New York Upstate Med. Ctr., Dept. of Biochemistry, Syracuse 10. *Asst. Prof.* (2, 1952)

Wells, Joseph Albert, M.D., Ph.D. Northwestern Univ. Med. School, Chicago, Ill. *Prof. of Pharmacology.* (3, 1944)

Welsh, John H., Ph.D. Harvard Univ., Biological Labs., 16 Divinity Ave., Cambridge 38, Mass. *Prof. of Zoology.* (1, 1945)

Wendel, Herbert, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Assoc. in Pharmacology.* (3, 1954)

Wendel, William B., Ph.D. Tulane Univ. School of Medicine, P. O. Station 20, New Orleans 18, La. *Chairman, Dept. of Biochemistry.* (2, 1932)

Wender, Simon H., Ph.D. Univ. of Oklahoma, Dept. of Chemistry, Norman. *Prof. of Biochemistry.* (2, 1953)

Werber, Erna A., Ph.D. 170 W. 73rd St., Apt. 3D, New York City. *Chief Bacteriologist and Mycologist, Jacques Loewe Research Lab.* (6, 1948)

Werkman, C. H., Ph.D. Iowa State College, Science Hall, Ames. *Prof. and Head of Dept. of Bacteriology.* (2, 1942)

Werle, Jacob M., M.D. 20911 Lorain Rd., Cleveland 26, Ohio. (1, 1943)

Werner, Harold W., Ph.D. The Wm. S. Merrell Co., Lockland Station, Cincinnati 15, Ohio. *Vice-Pres. in charge of Research.* (3, 1942)

Wertenberger, Grace E., Ph.D. Univ. of Indiana Dept. of Physiology, Bloomington. (1, 1943)

Werthessen, Nicholas T., Ph.D. Southwest Fndn. for Research and Education, P. O. Box 2296, San Antonio, Texas, *Dir. of Biology Div.; Chairman of Dept. of Physiology and Biochemistry.* (1, 1946)

Wertman, Kenneth, Ph.D. Univ. of Pittsburgh, Pittsburgh 13, Pa. *Prof. of Bacteriology.* (6, 1953)

Wertz, Anne W., Ph.D. Univ. of Massachusetts, Nutrition Research Labs., School of Home Economics, Amherst. *Prof., Research, Home Economics Nutrition.* (5, 1950)

Wescoe, W. Clarke, M.D. Univ. of Kansas Med. Center, Kansas City 12. *Prof. of Pharmacology and Exper. Medicine and Dean.* (3, 1949)

Wesson, Laurence G., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Staff Member, Div. of Industrial Cooperation.* (2R, 1929; 3, 1932)

Wesson, Laurence G., Jr., M.D. New York Univ.-Bellevue Med. Ctr., Post-Grad. Med. School, Dept. of Medicine, New York City 16. *Assoc. Prof.* (1, 1949)

West, Clark D., M.D. Children's Hosp. Research Fndn., Elland and Bethesda, Cincinnati 29, Ohio. *Fellow; Asst. Prof. of Pediatrics, Univ. of Cincinnati College of Medicine.* (1, 1954)

West, Edward S., Ph.D. Univ. of Oregon Med. School, Portland. *Prof. of Biochemistry.* (2, 1925)

West, Harold D., Ph.D. Meharry Med. College, Nashville 8, Tenn. *Prof. and Head of Dept. of Biochemistry.* (2, 1946)

West, Theodore C., Ph.D. Univ. of Washington, Seattle 5. *Instr. in Pharmacology.* (3, 1955)

Westerfeld, Wilfred Wiedey, Ph.D. State Univ. of New York, Upstate Med. Ctr., Syracuse 10, N. Y. *Prof. of Biochemistry.* (2, 1944)

Westfall, B. A., Ph.D. Univ. of Missouri School of Medicine, Dept. of Physiology and Pharmacology, Columbia. *Prof. of Pharmacology; Chairman of Dept.* (1, 1949; 3, 1950)

Weston, Raymond E., M.D., Ph.D. Montefiore Hosp., Med. Div., New York City. *Head, Cardiovascular and Metabolic Research Service.* (1, 1947)

Westphal, Ulrich F., Ph.D. Army Med. Research Lab., Biochemistry Dept., Fort Knox, Ky. *Chief, Protein and Steroid Section.* (2, 1952)

Wetzel, Norman C., M.D. Children's Fresh Air Camp and Hospital of Cleveland, Cleveland

Heights 6, Ohio. *Consultant in Growth and Nutrition.* (**5,** 1952)

Weymouth, Frank W., Ph.D. Stanford Univ., Calif. *Prof. of Physiology Emeritus.* (**1R,** 1917)

Wheeler, Albert H., M.S., M.S.P.H., Dr.P.H. Univ. of Michigan Hospital, Dept. of Dermatology and Syphilology, Ann Arbor. *Asst. Prof.* (**6,** 1950)

Wheeler, George W., M.D. New York City Dept. of Health, 235 E. 73rd St., New York City 21. *Clin. Specialist.* (**6R,** 1920)

Wheeler, Mary W., M.A. New York State Dept. of Health, Div. of Labs. and Research, Albany. *Assoc. Bacteriologist.* (**6,** 1933)

Wheelon, Homer, M.D. The Polyclinic, 920–2nd Ave., Seattle 4, Wash. (**1,** 1919)

Whipple, George H., M.D., Sc.D. Univ. of Rochester, Rochester, N. Y. *Prof. of Pathology Emeritus.* (**1,** 1911; **4,** 1913)

White, Abraham, Ph.D. Albert Einstein College of Medicine, Yeshiva Univ., New York City 61. *Prof. and Chairman of Dept. of Biochemistry; Assoc. Dean.* (**2,** 1934; **5,** 1937)

White, Abraham G., M.D. Mt. Sinai Hosp., New York City. *Asst. to the Dir. of Med. Research; Asst. Attending Physician.* (**1,** 1955)

White, Alan G. C., Ph.D. Tulane Univ., Dept. of Biochemistry, New Orleans, La. *Assoc. Prof. of Biochemistry.* (**2,** 1949)

White, Colin, M.S., B. M. Yale Univ., 30 Hillhouse Ave., New Haven, Conn. *Asst. Prof. of Biometry.* (**1,** 1949)

White, Florence R., Ph.D. % Dr. Julius White, Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Biochemist.* (**2,** 1946)

White, Frank D., Ph.D. Univ. of Manitoba, Faculty of Medicine, Bannatyne Ave., Winnepeg, Manitoba, Canada. *Prof. of Biochemistry; Biochemist, Winnipeg General Hospital.* (**2,** 1931)

White, Harvey Lester, M.D. Washington Univ. Med. School, St. Louis 10, Mo. *Prof. of Physiology.* (**1,** 1923)

White, Julius, Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Chief, Lab. of Physiology.* (**2,** 1937)

White, Paul Dudley, M.D. 264 Beacon St., Boston, Mass. (**3,** 1921)

Whitehair, C. K., Ph.D. Oklahoma A & M College, Stillwater. *Prof. of Physiology and Animal Nutrition.* (**5,** 1952)

Whitehead, Richard W., M.D. Univ. of Colorado School of Medicine, 4200 E. Ninth Ave., Denver. *Prof. of Pharmacology.* (**1,** 1933; **3,** 1928)

Whitehorn, William V., M.D. Univ. of Illinois College of Medicine, Chicago. *Prof. of Physiology.* (**1,** 1947)

Whittenberger, James L., M.D. Harvard School of Public Health, Dept. of Physiology, 55 Shattuck St., Boston 15, Mass. *Prof. and Head of Dept. of Physiology.* (**1,** 1949)

Whittlesey, Philip, M.D. Johns Hopkins Med. School, Dept. of Pharmacology, Baltimore 5, Md. *Eli Lilly Fellow.* (**3,** 1955)

Wick, Arne N., Ph.D. 615 Rosemont St., La Jolla, Calif. *Scripps Metabolic Clinic.* (**2,** 1951)

Wiener, Alexander S., M.D. 64 Rutland Rd., Brooklyn, N. Y. *Sr. Bacteriologist and Serologist to Office of Chief Med. Examiner of New York City; Head of Transfusion Div., Jewish Hospital of Brooklyn.* (**6,** 1932)

Wiercinski, Floyd J., Ph.D. Hahnemann Med. College, 235 N. 15th St., Philadelphia, Pa. *Asst. Prof. in Physiology.* (**1,** 1950)

Wiersma, Cornelis A. G., Ph.D. California Inst. of Technology, Pasadena. *Prof. of Physiology.* (**1,** 1941)

Wiese, Alvin C., Ph.D. Univ. of Idaho, Dept. of Agricultural Chemistry, Moscow. *Prof. and Head of Dept.* (**5,** 1950)

Wiese, Hilda F., Ph.D. Univ. of Texas Med. Branch, Galveston. *Assoc. Prof. and Consultant in Pediatric Nutrition.* (**5,** 1952)

Wiggers, Carl J., M.D., Sc.D. Cleveland Clinic, 2020 E. 93rd St., Cleveland 6, Ohio. *Prof. Emeritus of Physiology, Western Reserve Univ. Med. School; Hon. Prof. of Physiology, Frank E. Bunts Educational Inst.* (**1R,** 1907; **3R,** 1909)

Wiggers, Harold C., Ph.D. Union Univ., Albany Med. College, Albany 8, N. Y. *Dean; Prof. of Physiology.* (**1,** 1938)

Wigodsky, Herman S., Ph.D., M.D. 420 E. Houston St., San Antonio 5, Texas. *Clin. Asst. Prof.* (**1,** 1943)

Wikler, Abraham, M.D. NIMH Addiction Research Ctr., PHS Hospital, Lexington, Ky. *Chief, Neuropsychiatric Section* (**3,** 1944)

Wilber, Charles G., Ph.D. Med. Labs., Animal Ecology Br., Army Chemical Center, Md. *Asst. Chief.* (**1,** 1947)

Wilbur, Karl M., Ph.D. Duke Univ., Dept of Zoology, Durham, N. C. *Professor.* (**1,** 1951)

Wilde, Walter S., Ph.D. Tulane Univ. School of Medicine, Station 20, New Orleans, La. *Prof. of Physiology.* (**1,** 1944)

Wilder, Russell M., Ph.D., M.D. Mayo Clinic, 705 Eighth Ave., S.W., Rochester, Minn. (**1R,** 1921; **4R,** 1924; **5R,** 1933)

Wilens, Sigmund L. New York Univ.-Bellevue Med. Center, 550 First Ave., New York City 16. *Prof. and Dir. of Pathology.* (**4,** 1952)

Wiley, Frank H., Ph.D. Food and Drug Admin., Dept. of Health, Education and Welfare, Washington 25, D. C. *Chief, Div. of Pharmaceutical Chemistry.* (**2,** 1933)

Wilhelmi, Alfred E., Ph.D. Emory Univ. School of Medicine, Emory Univ., Ga. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1942)

Wilhelmj, Charles Martel, M.D. Creighton Univ. School of Medicine, Omaha, Neb. *Prof. of Physiology.* **(1,** 1931)

Wilkerson, Vernon A., M.D., Ph.D. Med. Arts Bldg., 61 K St., N. W., Washington, D. C. *Lecturer, Dept. of Physiology, Howard Univ. Med. School.* **(2,** 1936)

Williams, Carroll M., Ph.D., M.D. Harvard Univ., Biological Labs., Cambridge, Mass. *Prof. of Zoology.* **(1,** 1947)

Williams, George Z. Clinical Center, Dept. of Clinical Pathology, Natl. Insts. of Health, Bethesda 14, Md. *Chief, Dept. of Clinical Pathology.* **(4,** 1952)

Williams, Harold H., Ph.D. Cornell Univ., Savage Hall, Ithaca, N. Y. *Prof. and Head of Dept. of Biochemistry.* **(2,** 1938; **5,** 1936)

Williams, Horatio B., M.D., Sc.D. Box 893, Greenwich, Conn. *Dalton Prof. Emeritus of Physiology, Columbia Univ.* **(1,** 1912)

Williams, J. W., Ph.D. Univ. of Wisconsin, Chemistry Bldg., Madison. *Prof. of Chemistry.* **(2,** 1944)

Williams, Jesse N., Jr., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison. *Assoc. Prof.* **(2,** 1951)

Williams, M. Henry, Jr., M.D. Grasslands Hosp., Valhalla, N. Y. *Director, Cardio-Respiratory Lab.* **(1,** 1955)

Williams, Maude F., Ph.D. Univ. of North Carolina Woman's College, Dept. of Biology, Greensboro. *Assoc. Prof. of Physiology.* **(1,** 1955)

Williams, Ray D., M.D. 14 Danfield Rd., Ladue, Mo. *Asst. Prof. of Clin. Medicine, Washington Univ.* **(5,** 1941)

Williams, Richard B., Jr., M.D. Naval Med. Research Inst., Bethesda 14, Md. *Head, Pathology Div.* **(4,** 1955)

Williams, Robert Hardin, M.D. Univ. of Washington, Dept. of Medicine, Seattle. *Prof. and Exec. Officer.* **(4,** 1940)

Williams, Robert R., D.Sc. 297 Summit Ave., Summit, N. J. *Asst. to Pres., Research Corp.* **(2R,** 1919; **5,** 1941)

Williams, Roger J., Ph.D. Univ. of Texas, Dept. of Chemistry, 213 Chemistry Bldg., Austin. *Prof. of Chemistry; Dir. of Biochemical Inst.* **(2,** 1931)

Williams, Virginia R., Ph.D. Louisiana State Univ., Food Preservation Bldg., Baton Rouge. *Assoc. Prof.* **(2,** 1954)

Williams, W. Lane, Ph.D. Univ. of Minnesota Med. School, Dept. of Anatomy, Minneapolis 14. *Assoc. Prof. of Anatomy.* **(1,** 1947; **4,** 1947)

Williams, William L., Ph.D. Am. Cyanamid Co., Research Div., Pearl River, N. Y. *Head, Dept. of Physiological Chemistry.* **(2,** 1951)

Williamson, Martin B., Ph.D. Loyola Univ., School of Medicine, 706 S. Wolcott Ave., Chicago 12, Ill. *Assoc. Prof.* **(2,** 1953)

Willmon, Thomas L., M.D. U. S. Naval Med. Research Inst., Naval Med. Center, Bethesda, Md. *Capt., MC, USN; Exec. Officer.* **(1,** 1951)

Wills, J. H., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Pharmacology Br.* **(1,** 1943; **3,** 1951)

Wilson, Armine T. Alfred I. DuPont Inst., Wilmington 99, Del. *Chief Bacteriologist; Pediatrician-in-Chief.* **(6,** 1949)

Wilson, D. Wright, Ph.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Benjamin Rush Prof. of Physiological Chemistry.* **(1,** 1915; **2,** 1915)

Wilson, Eva D., Ph.D. 256 E. Irvin Ave., State College, Pa. *Prof., Dept. of Foods and Nutrition, School of Home Economics, Pennsylvania State College.* **(5,** 1947)

Wilson, Hildegard N., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Guest Worker.* **(2,** 1955)

Wilson, Irwin B., Ph.D. 3840 Greystone Ave., New York City 63. *Asst. Prof., Columbia Univ., College of Physicians and Surgeons.* **(2,** 1952)

Wilson, J. Walter, Ph.D. Brown Univ., Dept. of Biology, Providence 12, R. I. *Chairman of Dept. of Biology; F. L. Day Prof. of Biology.* **(1,** 1949; **4,** 1950)

Wilson, John W., Ph.D. Wright-Patterson Air Force, Aero-Med. Lab., Dayton, Ohio. *Research Physiologist.* **(1,** 1948)

Wilson, P. W., Ph.D. Univ. of Wisconsin, Dept. of Bacteriology, Madison. *Prof. of Bacteriology.* **(2,** 1939)

Wilson, Robert H., Ph.D. USDA, Western Utilization Br., Pharmacology Sec., Albany, Calif. *Sr. Pharmacologist.* **(3,** 1937)

Wilson, Walter L., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Asst. Prof. of Physiology and Biophysics.* **(1,** 1954)

Winbury, Martin M., Ph.D. Schering Corp., Pharmacology Dept., Bloomfield, N. J. *Sr. Pharmacologist.* **(3,** 1952)

Winder, Claude V., Sc.D. Parke Davis and Co., Detroit, Mich. *Research Pharmacologist.* **(1,** 1938; **3,** 1948)

Windle, William Frederick, Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Lab. of Neuroanatomical Sciences.* **(1,** 1937)

Wingo, William J., Ph.D. 1924 Saulter Rd., Birmingham 9, Ala. *Assoc. Prof., Univ. of Alabama Med. College and School of Dentistry.* **(2,** 1953)

Winnick, Theodore, Ph.D. Univ. of Iowa Med. School, Iowa City. *Assoc. Prof. of Biochemistry, Radiation Research Lab.* **(2,** 1946)

Winter, Charles A., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head, Dept. of Pharmacology.* **(1,** 1940; **3,** 1952)

Winter, Irwin Clinton, Ph.D., M.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Dir. of Clin. Research.* (**3,** 1941)

Winternitz, M. C., M.D. 2126 Connecticut Ave., Washington 8, D. C. (**4R,** 1913)

Wintersteiner, Oskar, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dir., Div. of Organic Chemistry.* (**2,** 1930)

Wintrobe, Maxwell Myer, M.D., Ph.D. 175 E. 21st St., S., Salt Lake City 15, Utah. *Prof. and Head, Dept. of Internal Medicine, Univ. of Utah College of Medicine; Dir., Lab. for Study of Hereditary and Metabolic Disorders.* (**4,** 1940)

Winzler, Richard J., Ph.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1946)

Wise, George H., Ph.D. North Carolina State College, Dept. of Animal Industry, Raleigh. *Prof. and Head of Animal Nutrition Section.* (**5,** 1951)

Wiseman, Bruce Kenneth, M.D. Ohio State Univ., Kinsman Hall, Columbus. *Prof. and Chairman of Dept. of Medicine; Asst. Dir. of Med. Research.* (**4,** 1932)

Wislocki, George B., M.D. Harvard Univ. Med. School, 25 Shattuck St., Boston, Mass. *Prof. of Anatomy.* (**1,** 1924)

Wisseman, Charles L., Jr., M.D. Univ. of Maryland Med. School, Dept. of Microbiology, Baltimore 1. *Prof. and Head of Dept.* (**6,** 1952)

Wissler, Robert W., M.D., Ph.D. Univ. of Chicago, 950 E. 59th St., Chicago 37, Ill. *Assoc. Prof. of Pathology.* (**4,** 1949; **6,** 1955)

Witebsky, Ernest, M.D. Buffalo Gen. Hosp. and Univ. of Buffalo School of Medicine, Buffalo 14, N. Y. *Dist. Prof. and Head of Dept. of Bacteriology and Immunology.* (**6,** 1935)

Witter, Robert F., Ph.D. Univ. of Rochester School of Medicine, Dept. of Biochemistry, Rochester 20, N. Y. *Asst. Prof.* (**2,** 1951)

Wittich, Fred W., M.D. 423 Marquette Bank Bldg., Minneapolis 2, Minn. *Sec.-Treas. of American College of Allergists.* (**6,** 1944)

Wohl, Michael G., M.D. Hahnemann Med. College, Div. of Biological Chemistry, Philadelphia 3, Pa. *Chief of Human Nutrition.* (**5,** 1953)

Wolf, Abner, M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Prof. of Neuropathology.* (**4,** 1948)

Wolf, Arnold Veryl, Ph.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Renal Sec.* (**1,** 1946)

Wolf, Stewart, M.D. 644 N.E. 14th St., Oklahoma City, Okla. *Prof. and Head of Dept. of Medicine.* (**1,** 1948)

Wolfe, Harold Reclus, Ph.D. Univ. of Wisconsin, Madison 6. *Prof. of Zoology.* (**6,** 1952)

Wolff, Harold G., M.D. New York Hospital, 525 E. 68th St., New York City. *Prof. of Medicine, Cornell Univ. Med. College; Attending Physician, New York Hospital.* (**1,** 1930; **3,** 1942)

Wolff, William A., Ph.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Assoc. Prof. of Clin. Chemistry and Toxicology.* (**2,** 1947)

Wolfrom, M. L., Ph.D. Ohio State Univ., Dept. of Chemistry, Columbus 10. *Prof. of Chemistry.* (**2,** 1953)

Woll, Ephraim, M.D. Univ. of Vermont College of Medicine, Burlington. *Assoc. Prof. of Pathology; Dir. of Labs., Mary Fletcher Hospital.* (**4,** 1951)

Wollenberger, Albert, Ph.D. Inst. of Pharmacology, Humboldt Univ. of Berlin, Berlin N.W. 7, Germany. (**3,** 1951)

Wolterink, Lester F., Ph.D. Michigan State Univ., Dept. of Physiology, East Lansing. *Professor.* (**1,** 1951)

Womack, C. Ray, M.D. Louisiana State Univ. School of Medicine, New Orleans 12. *Asst. Prof. of Microbiology and Medicine.* (**4,** 1955)

Womack, Madelyn, Ph.D. USDA, Human Nutrition Research Br., Agric. Research Service, Washington 25, D. C. *Biochemist.* (**5,** 1947)

Wood, Earl H., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Prof. of Physiology, Grad. School, Univ. of Minnesota; Consultant in Physiology, Mayo Clinic.* (**1,** 1943; **3,** 1949)

Wood, Harland G., Ph.D. Western Reserve Univ., Dept. of Biochemistry, Cleveland 6, Ohio. *Prof. and Chairman of Dept.* (**2,** 1944)

Wood, Harrison F., M.D. Irvington House, Irvington-on-Hudson, N. Y. Med. Dir. (**6,** 1954)

Wood, Horatio C., Jr., M.D., Ph.M. 319 S. 41st St., Philadelphia 4, Pa. (**3R,** 1908)

Wood, John L., Ph.D. Univ. of Tennessee School of Biological Sciences, Memphis 3. *Chief, Div. of Biochemistry.* (**2,** 1947)

Wood, Willis Avery, Ph.D. Univ. of Illinois, 460 Animal Sciences Lab., Urbana. *Asst. Prof. of Dairy Bacteriology.* (**2,** 1954)

Woodard, Geoffrey, Ph.D. RFD #3, Herndon, Va. *Pharmacologist; Chief, Pharmacodynamics Br. Food and Drug Administration, Washington, D. C.* (**3,** 1953)

Woodbury, Dixon M., Ph.D. Univ. of Utah College of Medicine, Dept. of Pharmacology, Salt Lake City 12. *Assoc. Research Prof.* (**3,** 1951)

Woodbury, J. Walter, Ph.D. Univ. of Washington, School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Asst. Prof.* (**1,** 1952)

Woodbury, Lowell A., Ph.D. Atomic Bomb Casualty Commission, APO 182, San Francisco, Calif. *Chief Biostatistician.* (**1,** 1951)

Woodbury, Robert A., Ph.D., M.D. Univ. of Tennessee, Dept. of Pharmacology, Memphis. *Prof. and Chief of Div. of Pharmacology.* (**1,** 1936; **3,** 1941)

Woodcock, Alan H., Ph.D. QMR & D Command, QMR & D Center, Natick, Mass. *Head, Biophysics Br.* (**1,** 1952)

Woodruff, Calvin W., M.D. Vanderbilt Univ. School of Medicine, Nashville 5, Tenn. *Asst. Prof. of Pediatrics.* (**5,** 1954)

Woods, Alan C., M.D. Johns Hopkins Hospital, Wilmer Ophthalmological Inst., Baltimore, Md. *Emeritus Ophthalmologist-in-Chief; Emeritus Prof. of Ophthalmology, Johns Hopkins Univ.* (**6,** 1918)

Woods, Ella, Ph.D. 1416 N. 13th St., Boise, Idaho. *Home Economist Emerita, Univ. of Idaho.* (**2R,** 1925; **5R,** 1933)

Woods, Lauren A., M.D., Ph.D. Univ. of Michigan, Dept. of Pharmacology, Ann Arbor. *Assoc. Prof.* (**3,** 1949)

Woods, Mark W., Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Sr. Cytologist.* (**2,** 1954)

Woodward, Alvalyn E., Ph.D. Bay View Acres, Mt. Pleasant, S. C. *Asst. Prof. Emeritus of Zoology, Univ. of Michigan.* (**1R,** 1932)

Wooley, Jerald G. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Bethesda, Md. *Sr. Biologist.* (**6,** 1949)

Woolley, D. Wayne, Ph.D., M.D. (Hon.) Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**2,** 1946; **5,** 1941)

Woolsey, Clinton N., M.D. Univ. of Wisconsin, Service Memorial Insts., Madison. *Charles Sumner Slichter Research Prof. of Neurophysiology.* (**1,** 1938)

Workman, William G., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Med. Dir., PHS.* (**6,** 1952)

Wortis, S. Bernard, M.D. New York Univ. College of Medicine, Dept. of Psychiatry, New York City 16. *Prof. and Chairman of Dept. of Psychiatry and Neurology; Dir., Psychiatry and Neurology Divs., NYU-Bellevue Med. Ctr.* (**1,** 1947)

Wright, Angus, M.D. 1414 S. Hope St., Los Angeles 15, Calif. *Pathologist, California Hospital.* (**4,** 1935)

Wright, Arthur W., M.D. Albany Med. College, New Scotland Ave., Albany, N. Y. *Prof. of Pathology and Bacteriology.* (**4,** 1941)

Wright, Charles Ingham, Ph.D. Natl. Insts. of Health, Bethesda, Md. *Sr. Pharmacologist. PHS.* (**1,** 1935; **3,** 1936)

Wright, Claude-Starr, M.D. Med. College of Georgia, Dept. of Medicine, Augusta. *Assoc. Prof.* (**6,** 1953)

Wright, Ernest B., Ph.D. Univ. of Rochester, School of Medicine and Dentistry, Rochester 20, N. Y. *Asst. Prof. of Physiology.* (**1,** 1952)

Wright, George G., Ph.D. Camp Detrick, Frederick, Md. *Chief, Immunology Br., Med. Investigation Div.* (**6,** 1943)

Wright, George W., M.D. St. Luke's Hospital, 11311 Shaker Blvd., Cleveland 4, Ohio. *Head, Dept. of Med. Research.* (**1,** 1952)

Wright, Harold N., Ph.D. Univ. of Minnesota, Minneapolis. *Prof. of Pharmacology.* (**3,** 1931)

Wright, Lemuel D., Ph.D. Sharp and Dohme, Div. of Merck & Co., Inc., West Point, Pa. *Dir. of Research in Microbiological Chemistry.* (**2,** 1946; **5,** 1946)

Wright, Paul A., Ph.D. Univ. of Michigan, Dept. of Zoology, Ann Arbor. *Asst. Prof.* (**1,** 1950)

Wright, Sydney L., Ph.D. Fox Hill Farm, Jamestown, R. I. (**2,** 1933)

Wu, Hsein, Ph.D., S.B. 28 Adams St., Brookline, Mass. (**2,** 1950)

Wulff, V. J., Ph.D. Syracuse Univ., Dept. of Zoology, Syracuse, N. Y. *Prof. and Chairman of Dept. of Zoology.* (**1,** 1949)

Wulzen, Rosalind, Ph.D. Oregon State College, Corvallis. *Prof. Emeritus of Zoology.* (**1R,** 1916)

Wyckoff, Ralph W. G., Ph.D. USPHS, Natl. Insts. of Health, Bethesda, Md. *Sr. Scientist.* (**6,** 1940)

Wyman, Jeffries, Jr., Ph.D. Harvard Univ., Biological Labs., Cambridge, Mass. *Assoc. Prof. of Zoology.* (**1,** 1928)

Wyman, Leland C., Ph.D. Boston Univ., College of Liberal Arts, 675 Commonwealth Ave., Boston, Mass. *Prof. of Biology.* (**1,** 1927)

Wynne, Arthur M., Ph.D. Univ. of Toronto, Dept. of Biochemistry, Toronto 5, Ontario, Canada. *Prof. of Biochemistry; Head of Dept.* (**2,** 1940)

Wyss, Orville, Ph.D. Univ. of Texas, Dept. of Bacteriology, Austin. *Prof.* (**2,** 1951)

Yager, Robert H., V.M.C. Army Med. Service Grad. School, Army Med. Center, Washington 12, D. C. *Lt. Col.; Dir., Veterinary Div.* (**6,** 1950)

Yerkes, Robert M., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Prof. Emeritus of Psychobiology, Yale Univ.* (**1R,** 1904)

Yonkman, Frederick F., Ph.D., M.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Vice President in charge of Research at Ciba.* (**3,** 1931)

Youmans, Guy P., M.D., Ph.D. Northwestern Univ. Med. School, Dept. of Bacteriology, Chicago, Ill. *Prof. and Head of Dept.* (**6,** 1955)

Youmans, John B., M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Dean and Dir. of Med. Affairs.* (**5,** 1948)

Youmans, William Barton, Ph.D., M.D. Univ. of Wisconsin Med. School, Madison 6. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1939; **3,** 1949)

Young, A. G., Ph.D., M.D. 520 Commonwealth Ave., Boston, Mass. (**3,** 1925)

Young, Allan C., Ph.D. Univ. of Washington, Dept. of Physiology and Biophysics, Seattle 5. *Assoc. Prof.* (**1,** 1952)

Young, E. G., Ph.D. Natl. Research Council of

Canada, Maritime Regional Lab., Halifax, N. S. *Director*. (2, 1925)

Young, Joseph M., M.D. Kennedy VA Hosp., Memphis 15, Tenn. *Chief, Lab. Service*. (4, 1955)

Youngner, Julius Stuart, M.S., Sc.D. Univ. of Pittsburgh, School of Medicine, Virus Research Lab., Pittsburgh, Pa. *Asst. Research Prof. of Bacteriology*. (6, 1950)

Yuile, Charles L., M.D., C.M. Univ. of California School of Medicine, Los Angeles 24. *Prof. of Pathology*. (4, 1941)

Zabin, Irving, Ph.D. Univ. of California School of Medicine, Dept. of Physiological Chemistry, Los Angeles 24. *Asst. Prof*. (2, 1953)

Zaffaroni, Alejandro, Ph.D. P. O. Box 2679, Mexico, D.F. *Vice-Pres., Dir. of Research, Syntex, S. A*. (2, 1954)

Zamcheck, Norman, M.D. Mallory Inst. of Pathology, Boston City Hosp., Boston, Mass. *Research Pathologist*. (4, 1954)

Zamecnik, Paul, M.D. Massachusetts General Hospital, Boston 14, Mass. *Assoc. Prof. of Medicine, Harvard Univ*. (2, 1950)

Zamenhof, Stephen, Ph.D. Columbia Univ., College of Physicians and Surgeons, Dept. of Biochemistry, 630 West 168th St., New York City 32. *Asst. Prof*. (2, 1951)

Zapata-Ortiz, Vicente, M.D., D.M. Faculty of Medicine, Apartado No. 2694, Lima, Peru. *Prof. of Pharmacology*. (3, 1951)

Zapp, John A., Jr., Ph.D. 318 Marshall St., Kennett Sq., Pa. *Dir., Haskell Lab. for Toxicology and Industrial Medicine, E. I. duPont de Nemours & Co*. (1, 1950)

Zarrow, M. X., Ph.D. Purdue Univ., Dept. of Biological Sciences, Lafayette, Ind. *Prof. of Zoology*. (1, 1949)

Zauder, Howard L., Ph.D. New York Univ. School of Medicine, Dept. of Exptl. Surgery, New York City. (3, 1955)

Zechmeister, L., Dr. Ing. California Inst. of Technology, Pasadena. *Prof. of Organic Chemistry*. (2, 1941)

Zeckwer, Isolde T., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. of Pathology*. (1, 1934; 4, 1927)

Zeidman, Irving, M.D. Univ. of Pennsylvania Med. School, Dept. of Pathology, Philadelphia. *Asst. Prof*. (4, 1946)

Zeldis, Louis J., M.D. Univ. of California, Med. Center, Dept. of Pathology, Los Angeles 24. *Professor*. (4, 1945)

Zelitch, Israel, Ph.D. Connecticut Agric. Experiment Station, P. O. Box 1106, New Haven 4. *Assoc. Biochemist*. (2, 1954)

Zeller, E. Albert, M.D., Ph.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11. *Prof. of Biochemistry*. (2, 1951)

Zichis, Joseph, Ph.D. Markham Labs., 9246 S. Vincennes Ave., Chicago 20, Ill. *Dir*. (6, 1951)

Zierler, Kenneth L., M.D. Johns Hopkins Hospital, Dept. of Medicine, Baltimore 5, Md. *Assoc. Prof., Environmental Medicine; Instr. in Medicine, Johns Hopkins Univ*. (1, 1951)

Zilversmit, D. B., Ph.D. Univ. of Tennessee, Dept. of Physiology, Memphis 3. *Assoc. Prof*. (1, 1949)

Zimmerman, Harry M., M.D. Montefiore Hospital, New York City 67. *Chief, Lab. Div.; Prof. of Pathology, College of Physicians and Surgeons, Columbia Univ*. (4, 1933)

Zirkle, Raymond E., Ph.D. Univ. of Chicago, Committee on Biophysics, Chicago, Ill. *Prof. of Radiobiology*. (1, 1948)

Zittle, Charles A., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia 18, Pa. *Chemist; Section Chief, Protein Div*. (2, 1946)

Zubrod, Charles G., M.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. (3, 1952)

Zucker, Marjorie B., Ph.D. Sloan-Kettering Inst. for Cancer Research, New York City 21. *Associate*. (1, 1947)

Zweifach, Benjamin W., Ph.D. New York Univ., College of Medicine, Dept. of Pathology, New York City 16. (1, 1945)

Zwemer, Raymund L., Ph.D. 5003 Battery Lane, Bethesda 14, Md. *Chief, Science Div., Library of Congress, Washington, D. C*. (1, 1930)

SUMMARY OF MEMBERSHIP

The American Physiological Society	1530
American Society of Biological Chemists	1183
American Society for Pharmacology and Experimental Therapeutics	642
The American Society for Experimental Pathology	431
American Institute of Nutrition	432
The American Association of Immunologists	464
Total membership	4682

DECEASED MEMBERS

Avery, O. T. (**4**, 1921; **6R**, 1920) February 20, 1955
Bauman, Louis (**2R**, 1912) November 1, 1954
Child, Charles M. (**1R**, 1923)
Falk, K. George (**2R**, 1913) November 22, 1953
Fones, William Spencer (**2**, 1954)
Frankel, Edward M. (**2**, 1916) November 1954
Gerstenberger, Henry John (**5R**, 1938) June 24, 1955
Hirszfeld, Ludwik (**6**, 1946) March 7, 1954
Johlin, J. M. (**2R**, 1928) July 21, 1954
Lenhart, Carl (**1R**, 1921) 1955
Massengale, Oliver N. (**2**, 1937) January 7, 1955
Miller, Edgar G., Jr. (**2**, 1930) June 28, 1955
Mitchell, Philip H. (**2R**, 1909) February 2, 1955
Moulton, C. Robert (**5**, 1933) April 1955
Myers, Chester N. (**2R**, 1922) May 3, 1954
Nelson, Victor E. (**2**, 1924) May 16, 1955
Neuwelt, Frank (**1**, 1940) July 4, 1955
Pappenheimer, Alwin M. (**4**, 1922) February 21, 1955
Parker, George H. (**1R**, 1909) April 1, 1955
Schiller, Alfred A. (**1**, 1948) April 21, 1955
Schlesinger, M. J. (**4**, 1942; **6**, 1921) January 20, 1955
Schradieck, Constant E. (**6**, 1921) May 2, 1954
Sherman, Henry C. (**1R**, 1923; **2R**, 1906; **5R**, 1933) October 8, 1955
Solandt, Donald Young (**1**, 1937) April 1955
Sumner, J. B. (**2R**, 1919) August 11, 1955
Wakeman, Alfred J. (**2R**, 1906) June 7, 1955
Wooley, Jerald G. (**6**, 1949) April 1954

LIST OF MEMBERS BY LOCATION

ALABAMA

Auburn

ALABAMA POLYTECHNIC INST.

E. L. Hove, 5
W. D. Salmon, 2, 5
H. E. Sauberlich, 2, 5

Birmingham

UNIV. OF ALABAMA MED. CENTER

S. B. Barker, 1, 3
R. J. Bing, 1
J. M. Bruhn, 1
E. B. Carmichael, 1, 2
A. E. Casey, 4
E. E. Evans, 6
K. Hare, 1
P. Hitchcock, 3
L. L. Langley, 1
J. F. A. McManus, 4
F. L. Meyer, 5
W. W. Pigman, 2
T. W. Robinson, 1
L. H. Schneyer, 1
R. S. Teague, 3
E. N. Todhunter, 5
W. J. Wingo, 2

Alabama—Unclassified

C. Brooks, 1, 3
A. B. Eschenbrenner, 4
R. A. Lambert, 4
C. C. Shepard, 6
H. E. Skipper, 2
T. D. Spies, 3, 4, 5

ALASKA

R. J. Hock, 1
L. Irving, 1
E. M. Scott, 2

ARIZONA

M. J. Blish, 2
L. E. Booher, 2, 5
C. L. Hess, 1R
K. K. Jones, 1R
A. R. Kemmerer, 5

ARKANSAS

Fayetteville and Little Rock

UNIV. OF ARKANSAS

S. A. Corson, 1
P. L. Day, 2, 5
J. S. Dinning, 5
C. E. Duffy, 6
F. E. Emery, 1
P. L. Ewing, 3
M. C. Kik, 5
A. Nettleship, 4
J. Sacks, 1, 3
L. D. Seager, 3
B. Sure, 2, 5

Arkansas—Unclassified

H. D. Lightbody, 2

CALIFORNIA

Albany

USDA WESTERN UTILIZATION RESEARCH BRANCH

G. Alderton, 2
A. M. Ambrose, 3
F. DeEds, 2, 3
E. F. Jansen, 2
J. C. Lewis, 2
H. Lineweaver, 2
H. P. Lundgren, 2
S. Schwimmer, 2
R. H. Wilson, 3

Berkeley

UNIV. OF CALIFORNIA

F. W. Allen, 2
H. A. Barker, 2
E. L. Bennett, 2
L. L. Bennett, 1
M. M. Brooks, 1
M. Calvin, 2
F. H. Carpenter, 2
I. L Chaikoff, 1
E. E. Conn, 2
C. C. Delwiche, 2
L. Dobson, 1
M. Doudoroff, 2
E. L. Duggan, 2
S. S. Elberg, 6
H. M. Evans, 1R
H. O. L. Fischer, 2R
J. Fong, 6
H. L. Fraenkel-Conrat, 2
D. M. Greenberg, 2
W. Z. Hassid, 2
H. B. Jones, 1
J. Katz, 2
P. L. Kirk, 2
C. A. Knight, 2
A. P. Krueger, 4, 6
J. H. Lawrence, 1
S. Lepkovsky, 2, 5
C. H. Li, 2
A. D. McLaren, 2
A. F. Morgan, 2R, 5
M. M. Nelson, 5
J. H. Northrop, 2
R. Okey, 2, 5
H. S. Olcott, 2
J. M. D. Olmsted, 1R
N. Pace, 1
A. B. Pardee, 2
M. Rabinovitz, 2
W. O. Reinhardt, 1
H. K. Schachman, 2
M. E. Simpson, 1
W. M. Stanley, 2
P. K. Stumpf, 2
M. E. Swendseid, 2
H. Tarver, 2
P. S. Timiras, 3

BERKELEY—UNCLASSIFIED

L. J. Bogert, 2R
H. C. Bradley, 1R, 2
F. R. Goetzl, 1
E. L. Hansen, 3
E. H. Lennette, 4, 6
V. P. Seeberg, 3
E. S. Sundstroem, 2R
W. E. Ward, 6

Davis

UNIV. OF CALIFORNIA

H. H. Cole, 1
D. R. Cordy, 4
J. B. Enright, 6
G. Everson, 5
H. Goss, 2, 5
C. R. Grau, 5
M. Kleiber, 1, 5
F. H. Kratzer, 5
S. A. Peoples, 3
P. P. T. Sah, 3

La Jolla

SCRIPPS INST. OF OCEANOGRAPHY AND METABOLIC CLINIC

G. R. Bartlett, 2
N. W. Rakestraw, 2
A. N. Wick, 2

Los Angeles-Pasadena

CALIFORNIA INST. OF TECH.

J. Bonner, 2
H. Borsook, 2
D. H. Campbell, 6
J. W. Dubnoff, 2
N. H. Horowitz, 2
G. Keighley, 1
H. K. Mitchell, 2
C. G. Niemann, 2
R. D. Owen, 6
R. W. Sperry, 1
A. Tyler, 6
A. Van Harreveld, 1
C. A. G. Wiersma, 1
L. Zechmeister, 2

CEDARS OF LEBANON HOSP.

N. B. Friedman, 4
B. M. Kagan, 5
M. Prinzmetal, 3
P. E. Rekers, 4

CITY OF HOPE MED. CTR.

H. R. Bierman, 3
R. Kinosita, 4
E. Roberts, 2

RIKER LABS.

G. E. Cronheim, 3
G. L. Maison, 1, 3
J. A. Orcutt, 2
J. W. Stutzman, 1, 3

UNIV. OF CALIFORNIA

J. M. Adams, 4
C. M. Agress, 1
T. H. Bullock, 1
M. N. Camien, 2
F. Crescitelli, 1
W. Drell, 2
M. S. Dunn, 2
J. Field, II, 1
R. M. Fink, 2
E. Gal, 2
J. B. Garst, 2
J. R. Geary, Jr., 4
J. D. Green, 1
W. H. Griffith, 2, 5
V. E. Hall, 1
A. Hemingway, 1
J. E. Hyde, 1
T. L. Jahn, 1
E. E. Killam, 3
B. G. Lamson, 4
H. Latta, 4
R. L. Libby, 6
D. B. Lindsley, 1
R. B. Livingston, 1
N. S. MacDonald, 2
S. C. Madden, 4
H. W. Magoun, 1
J. V. Maloney, Jr., 1
M. H. Maxwell, 1
F. W. McKee, 4
R. W. McKee, 2
J. F. Mead, 2
J. F. Nyc, 2
H. E. Pearson, 6
J. G. Pieru, 2
A. F. Rasmussen, Jr., 6
R. F. Riley, 3
S. Roberts, 1, 2
J. F. Ross, 4
D. R. Sanadi, 2
C. H. Sawyer, 1
W. A. Selle, 1
R. E. Smith, 1
R. R. Sonnenschein, 1
S. Soskin, 1, 5
C. M. Szego, 1
C. L. Taylor, 1
D. B. Taylor, 3
R. Tschirgi, 1
M. Verzeano, 1
C. L. Yuile, 4
I. Zabin, 2
L. J. Zeldis, 4

UNIV. OF SOUTHERN CALIFORNIA

R. B. Alfin-Slater, 2, 5
W. H. Bachrach, 1
H. J. Deuel, Jr., 1, 2, 5
D. R. Drury, 1
B. H. Ershoff, 5
J. B. Field, 2
E. Geiger, 5
I. Gordon, 6
P. O. Greeley, 1
D. M. Green, 1, 3

C. Hyman, 1
J. Marmorston, 6
W. Marx, 2
J. W. Mehl, 2
L. E. Morehouse, 1
M. G. Morehouse, 2
H. L. Motley, 1
B. O. Raulston, 3
S. S. Sobin, 1
L. E. Travis, 1
D. W. Visser, 1
A. G. Ware, 2
A. Wright, 4

VETERANS ADMINISTRATION

W. G. Clark, 1, 3
J. O. Erickson, 6
K. F. Fink, 2
M. I. Grossman, 1

LOS ANGELES — UNCLASSIFIED

G. A Alles, 1, 3
B. W. Beadle, 2
H. A. Davis, 4
O. J. Gollub, 6
T. J. Haley, 3
R. W. Lippman, 1
J. B. Loefer, 1
E. M. MacKay, 1
G. H. Marmont, 1
H. H. Mitchell, 6
C. F. Pait, 6
J. W. Palmer, 6
J. J. Quilligan, Jr., 6
L. B. Rockland, 2
F. H. Scharles, 5
D. G. Simonsen, 2
C. H. Thienes, 3
J. Tilt, 5R

San Francisco Area

MT. ZION HOSP.

G. R. Biskind, 4
S. O. Byers, 1
M. Friedman, 1
A. E. Lewis, 1
R. H. Rosenman, 1

STANFORD UNIV.

J. P. Baumberger, 1
A. L. Bloomfield, 3, 4
A. J. Cox, Jr., 4
J. M. Crismon, 1
W. C. Cutting, 3
R. H. Dreisbach, 3
G. A. Feigen, 1
C. S. French, 2
F. A. Fuhrman, 1
Q. M. Geiman, 4
A. Goldstein, 3
R. Grant, 1
G. L. Laqueur, 4
H. S. Loring, 2
J. M. Luck, 2
W. H. Manwaring, 4, 6
H. W. Newman, 3
S. Raffel, 6
L. A. Rantz, 3
L. J. Rather, 4
O. H. Robertson, 4R
D. A. Rytand, 3
E. W. Schultz, 4, 6
R. E. Swain, 2R
E. L. Tatum, 2
F. W. Weymouth, 1R

UNIV. OF CALIFORNIA

T. K. Adler, 3
H. H. Anderson, 3
W. L. Bostick, 4
E. Brown, 1
J. L. Carr, 4
E. L. Durrum, 2
J. J. Eiler, 2
H. W. Elliott, 3
N. E. Freeman, 1
L. D. Greenberg, 2
H. A. Harper, 2
C. H. Hine, 3
E. Jawetz, 6
C. H. Kempe, 6
H. I. Kohn, 1
B. Libet, 1
S. Lindsay, 4
M. E. Marsh, 1, 5
L. R. Melcher, 6
S. R. Mettier, 4
K. F. Meyer, 4, 6
F. H. Meyers, 3
H. D. Moon, 4
E. W. Page, 1
J. F. Rinehart, 4
E. L. Way, 3

SAN FRANCISCO — UNCLASSIFIED

L. A. Barnes, 6
R. W. Brauer, 3
W. H. Carnes, 4
Y. Chin, 3
C. Entenman, 1
O. Felsenfeld, 6
H. E. Foster, 6
H. Kabat, 1
R. J. Parsons, 4
C. F. Piel, 4
H. J. Ralston, 1
J. J. Sampson, 1
J. S. Thatcher, 1
L. A. Woodbury, 1

Santa Barbara

F. E. Bischoff, 2, 5
A. E. Koehler, 2
M. Sahyun, 2

California—Unclassified

H. J. Almquist, 2, 5
J. E. Bacher, 2
H. A. Ball, 4
T. O. Berge, 6
C. Biddulph, 1
W. M. Cahill, 2
P. A. Cavelti, 6
G. W. Clark, 2R
J. E. Cushing, Jr., 6
M. C. D'Amour, 1
P. M. Dawson, 1R
C. Gruber, 1R, 3
O. L. Huddleston, 1
W. J. Kerr, 3R
R. A. Kocher, 2R
A. R. Lamb, 2, 5
W. S. Lawrence, 3
A. R. Moore, 1
E. Oppenheimer, 3
J. R. Poppen, 1
J. D. Reese, 4
R. W. Ridley, 3
J. H. Sirota, 1
A. M. Snell, 4
B. F. Stimmel, 2
H. C. Struck, 1, 3

COLORADO

Denver

UNIV. OF COLORADO

A. Abrams, 2
M. H. Block, 4
F. A. Cajori, 2, 5
J. R. Cann, 6
F. D'Amour, 1
W. B. Draper, 1, 3
M. A. Fink, 6
J. W. Gersten, 1
R. M. Hill, 2
J. H. Holmes, 1
G. K. Lewis, 5
R. C. Lewis, 2, 5R
C. A. Maaske, 1
C. G. Mackenzie, 1, 2, 5
J. F. MacKenzie, 2
J. B. McNaught, 4
G. Meiklejohn, 6
A. V. Montgomery, Jr., 1
R. M. Mulligan, 4
T. T. Puck, 6
D. L. Smith, 3
R. Thompson, 6
R. W. Virtue, 2
R. W. Whitehead, 1, 3

Colorado—Unclassified

B. O. Barnes, 1
J. M. Beazell, 1
H. Bourquin, 1
H. J. Corper, 2R
E. S. Fetcher, 1
T. E. Friedemann, 2, 5
F. X. Gassner, 1
C. J. Koehn, 5
C. R. Schmidt, 1

CONNECTICUT

Greenwich

A. A. Albanese, 2
H. L. Amoss, 4, 6
W. F. Loomis, 2
H. B. Williams, 1

Hartford

O. R. Benham, 6
W. T. Liberson, 1
S. J. Martin, 1
H. F. Pierce, 1
S. E. Pond, 1
K. H. Pribram, 1

New Haven

CONN. AGRIC. EXPER. STATION

C. I. Bliss, 3
R. B. Hubbell, 2R, 5
H. B. Vickery, 2
I. Zelitch, 2

YALE UNIV.

W. H. Adolph, 2R, 5
R. J. Anderson, 2
G. A. Baitsell, 1R
D. H. Barron, 1
W. Bergmann, 2
E. J. Boell, 1
D. M. Bonner, 2
D. D. Bonnycastle, 3
C. E. Carter, 2
H. G. Cassidy, 2
G. R. Cowgill, 1, 2, 5
J. M. R. Delgado, 1
J. English, Jr., 2
J. S. Fruton, 2
J. F. Fulton, 1
N. J. Giarman, 3
R. H. Green, 6
H. S. N. Greene, 4
H. W. Haggard, 1, 2
R. G. Harrison, 1
D. I. Hitchcock, 2
D. M. Horstmann, 6
M. E. Howard, 4, 6
D. L. Kline, 1
E. Knöbil, 1
W. A. Krehl, 2, 5
H. Lamport, 1
C. N. H. Long, 1, 2
E. B. Man, 2
J. L. Melnick, 2, 6
L. N. Nahum, 1
C. A. Nichol, 2
J. S. Nicholas, 1
J. M. Nichols, 1
J. C. Opsahl, 2
I. A. Parfentjev, 6
J. R. Paul, 4, 6
P. D. Rosahn, 4
S. Simmonds, 2
M. V. Simpson, 2
G. H. Smith, 6
H. P. Treffers, 6
G. Van Wagenen, 1
J. T. Velardo, 1
W. Vishniac, 2
R. R. Wagner, 6
A. D. Welch, 2, 3, 5
C. White, 1
R. M. Yerkes, 1R

NEW HAVEN — UNCLASSIFIED

D. L. Buchanan, 2
L. P. Herrington, 1
J. P. Peters, 2R

Connecticut — Unclassified

W. E. Anderson, 2R, 5
L. Atkin, 2, 5
C. V. Bailey, 2R, 5R
F. H. Bird, 5
E. G. Boettiger, 1
H. L. Campbell, 5R
F. L. Dey, 1
L. T. Fairhall, 2R
R. A. Gortner, Jr., 5
J. H. Heller, 1
C. S. Leonard, 3
L. D. Matterson, 5
M. C. Pease, 6
J. M. Rogoff, 1R, 3R
E. Sachs, 1R
K. E. Schaefer, 1
P. G. Stansly, 2

M. R. Thompson, 3
R. A. Turner, 2
A. J. Wakeman, 2R
J. B. Watson, 1

DELAWARE

Wilmington

ALFRED I. DUPONT INST.

L. Brouha, 1
P. B. Hamilton, 2
A. T. Wilson, 6
J. A. Zapp, Jr., 1

Delaware—Unclassified

D. Marine, 1R, 4R
H. R. Rosenberg, 2
J. Waddell, 2, 5

DISTRICT OF COLUMBIA AREA

GEORGE WASHINGTON UNIV.

E. C. Albritton, 1
H. Bacchus, 1
S. P. Bessman, 2
W. R. Duryee, 1
A. Griffin, 6
L. G. Lederer, 1
C. E. Leese, 1
H. G. Mandel, 2, 3
L. W. Parr, 4
M. L. Robbins, 6
J. H. Roe, 2, 5
P. K. Smith, 2, 3
C. R. Treadwell, 2, 5

GEORGETOWN UNIV.

F. M. Forster, 1
E. D. Freis, 3
W. C. Hess, 2
T. Koppanyi, 1, 3
C. F. Morgan, 1, 3
M. X. Sullivan, 2R

HOWARD UNIV.

W. M. Booker, 1, 3
F. Friedberg, 2
E. W. Hawthorne, 1
J. L. Johnson, 1
A. H. Maloney, 3
L. M. Marshall, 2
V. A. Wilkerson, 2

NATL. RESEARCH COUNCIL—NATL. ACADEMY OF SCIENCES

D. W. Bronk, 1
R. K. Cannan, 2
D. E. Copeland, 1
J. H. Defandorf, 3
L. Voris, 5

U. S. Government

DEPT. OF AGRICULTURE

USDA and Natl. Agric. Research Center, Beltsville, Md.

G. Adams, 5
M. Adams, 2
E. L. Batchelder, 5
E. C. Callison, 5
C. M. Coons, 5
E. J. Coulson, 6
F. A. Csonka, 2
C. A. Denton, 5
N. R. Ellis, 2, 5
D. L. Espe, 1
R. M. Fraps, 1
A. M. Hartman, 5
M. L. Hathaway, 5
E. M. Hewston, 5
M. J. Horn, 2
G. W. Irving, Jr., 2
E. W. Ligon, Jr., 3
L. A. Moore, 5
A. A. Nelson, 4
H. Oldham, 5
W. I. Patterson, 2
O. Schreiner, 2R
F. Sperling, 3
H. K. Stiebeling, 5
J. F. Sykes, 1
M. Womack, 5

DEPT. OF DEFENSE

Air Force

H. G. Armstrong, 1R
O. O. Benson, Jr., 1

Army

S. Bayne-Jones, 4, 6
E. L. Becker, 6
R. W. Clarke, 1
G. Edsall, 6
R. H. Follis, Jr., 4
J. P. Frawley, 3
M. G. F. Fuortes, 1
R. Galambos, 1
W. S. Gochenour, Jr., 6
L. R. Goldbaum, 3
E. W. Goodpasture, 4
H. G. Grady, 4
D. E. Gregg, 1
M. Hilleman, 6
E. B. Jackson, 6
F. L. Jennings, 4
J. F. Kent, 6
H. A. Kuhn, 3
M. Landy, 6
J. A. Morris, 6
J. T. Park, 2
D. M. Rioch, 1
J. E. Smadel, 4, 6
H. F. Smetana, 4
E. R. B. Smith, 2
R. Terry, 4
A. Wolf, 6
R. H. Yager, 6

Navy

T. Benzinger, 1
N. I. Berlin, 1
J. J. Blum, 1
D. J. Botts, 1
J. J. Christian, 4
F. B. Gordon, 4
E. Hardenbergh, 1
D. J. Jenden, 3
H. T. Karsner, 4
M. F. Morales, 1
R. A. Phillips, 1
F. H. Quimby, 1
O. E. Reynolds, 1
J. Sendroy, Jr., 1, 2
S. N. Stein, 1
R. M. Taylor, 6
H. G. Wagner, 1
R. B. Williams, Jr., 4
T. L. Willmon, 1

DEPT. OF HEALTH, EDUCATION AND WELFARE

Public Health Service, Natl. Insts. of Health and Food and Drug Admin.

R. P. Akers, 1
G. H. Algire, 4
P. D. Altland, 1
E. M. Anderson, 1
H. B. Andervont, 4
C. B. Anfinsen, Jr., 2
W. M. Ashby, 6
J. Axelrod, 3
H. D. Baernstein, 2
C. G. Baker, 2
R. W. Bates, 2
J. H. Baxter, 3
M. Belkin, 3
R. W. Berliner, 1
J. G. Bieri, 5
S. M. Birnbaum, 2
J. E. Birren, 1
S. Black, 2
B. Bloom, 2
B. R. Boone, 1
W. J. Bowen, 1
J. Bozicevich, 6
R. O. Brady, 2
J. H. Bragdon, 4
S. E. Branham, 6
H. A. Braun, 3
G. Brecher, 4
G. M. Briggs, 5
B. B. Brodie, 2, 3
W. R. Bryan, 1, 4, 6
D. Burk, 2
M. S. Burstone, 4
G. Cantoni, 2, 3
P. O. Chatfield, 1
S. S. Chernick, 2
J. Cochin, 3
K. S. Cole, 1
C. D. Congdon, 4
M. de V. Cotten, 3
J. M. Curtis, 2
F. S. Daft, 2, 5
A. J. Dalton, 4
D. J. Davis, 6
J. O. Davis, 1
J. H. Draize, 3
T. B. Dunn, 4
H. M. Dyer, 2, 5
H. Eagle, 3R, 6
W. R. Earle, 4
B. E. Eddy, 6
N. B. Eddy, 3
F. Eisenberg, Jr., 2
M. M. Eliot, 5
F. P. Ellinger, 3
E. W. Emmart, 3
K. M. Endicott, 4
O. G. Fitzhugh, 3
K. Frank, 1
J. P. Frawley, 3
J. B. Gilbert, 2
A. Goldin, 1
R. L. Grant, 2
J. P. Greenstein, 2
K. Habel, 6
M. H. Hack, 2
W. M. Hart, 1
O. Hayaishi, 2
L. A. Heppel, 2
R. Hertz, 1
W. E. Heston, 4
B. Highman, 4
C. A. M. Hogben, 1
G. H. Hogeboom, 2
B. L. Horecker, 2
W. C. Hueper, 4
J. M. Hundley, 5
H. A. Itano, 2
H. M. Kalckar, 2
L. Karel, 3
S. Kaufman, 2
E. O. Keiles, 2, 5
T. J. Kennedy, Jr., 1
J. C. Keresztesy, 2, 5
S. S. Kety, 1, 3
W. W. Kielley, 2
M. W. Kies, 2
L. Kilham, 6
O. L. Kline, 5
R. E. Knutti, 4
M. Landowne, 1
E. P. Laug, 2, 3
L. W. Law, 4
A. J. Lehman, 3
J. Leighton, 4
L. Levintow, 2
R. D. Lillie, 4
J. C. Lilly, 1
R. C. MacCardle, 4
H. M. Maling, 3
L. H. Marshall, 1
W. H. Marshall, 1
M. E. Maver, 2
A. H. Mehler, 2
A. Meister, 2
O. Mickelson, 2
G. B. Mider, 4
E. Mihalyi, 2
R. C. Millican, 3
H. P. Morris, 2, 5
E. M. Nadel, 4
A. A. Nelson, 4
E. M. Nelson, 2, 5
B. J. Olson, 6
R. A. Olson, 1
J. Orloff, 1
E. A. Peterson, 2
N. E. Price, 2
J. C. Rabinowitz, 2
W. A. Randall, 6
J. C. Reid, 2
M. E. Reid, 5
E. M. Renkin, 1
S. M. Rosenthal, 3
S. J. Sarnoff, 1
R. E. Scantlebury, 1
A. E. Schaefer, 5
S. Schiller, 2
W. C. Schneider, 2
R. O. Scow, 1
A. Seidell, 2R
J. Shack, 2
A. M. Shanes, 1
J. A. Shannon, 1, 3
M. J. Shear, 2, 3
M. B. Shimkin, 4
M. Silverman, 2
F. Smith, 1
R. G. Smith, 3

W. W Smith, 1
H. A. Sober, 2
L. Sokoloff, 1
H. Specht, 1
S. S. Spicer, 1
E. R. Stadtman, 2
C. H. Steffee, 4
H. G. Steinman, 2
D. Stetten, Jr., 2
M. R. Stetten, 2
H. L. Stewart, 4
E. F. Stohlman, 3
H. Tabor, 2, 3
W. T. S. Thorp, 4
C. D. Tolle, 5
Y. J. Topper, 2
S. Udenfriend, 2
W. F. Von Oettingen, 3
B. J. Vos, 3
H. Welch, 6
F. R. White, 2
J. White, 2
F. H. Wiley, 2
G. Z. Williams, 4
H. N. Wilson, 2
W. F. Windle, 1
M. W. Woods, 2
W. G. Workman, 6
C. I. Wright, 1, 3
R. W. G. Wyckoff, 6
C. G. Zubrod, 3

U. S. Government—Unclassified
W. R. Boss, 1
L. Carmichael, 1
W. V. Consolazio, 2
B. Davidow, 3
B. G. King, 1
P. G. LeFevre, 1
L. Levin, 2
P. B. Pearson, 2, 5
C. W. Shilling, 1
C. R. Spealman, 1
A. M. Walker, 1, 3
G. Woodard, 3
R. L. Zwemer, 1

District of Columbia—Unclassified
H. G. Barott, 5R
H. W. Chalkley, 1
J. K. Cotts, 3
E. de Savitsch, 4
D. D. Donahue, 3
J. F. Fazekas, 3
T. D. Fontaine, 2
M. H. Friedman, 1
M. Harris, 2
L. W. Hazleton, 3
P. E. Howe, 1R, 2R, 5R
M. O. Lee, 1, 5
R. P. Mason, 6
R. K. McDonald, 1
D. Minard, 1
G. B. Roth, 1R, 3R
S. L. Smith, 5R
J. Steinhardt, 2
M. C. Winternitz, 4R

FLORIDA

Gainesville

Univ. of Florida
T. J. Cunha, 5
G. K. Davis, 5
M. Klein, 4
T. H. Maren, 3
F. W. Putnam, 2

Miami

Univ. of Miami
W. A. D. Anderson, 4
D. H. Cook, 2
W. B. Deichmann, 3
C. E. Lane, 1
E. Larson, 1, 3
G. T. Lewis, 2
V. H. Moon, 4
W. G. Moss, 1
J. L. Radomski, 3
G. C. Ring, 1
M. M. Sigel, 6

Miami—Unclassified
C. A. Cary, 2R
N. Glickman, 1
J. J. Griffitts, 6
L. G. Rowntree, 1R, 2R, 3R
M. L. Weil, 6

Tallahassee

Florida State Univ.
L M. Beidler, 1
K. Dittmer, 2
D. M. Easton, 1
S. W. Fox, 2
M. R. Sandels, 5

Florida—Unclassified
N. R. Blatherwick, 1, 2R, 5R
G. R. Crisler, 1
C. W. Duval, 4
W. H. Eddy, 2R, 5R
A. G. Foraker, 4
A. Graybiel, 1
P. B. Hawk, 1, 2
F. A. Hellebrandt, 1R
J. W. Jobling, 4R
K. S. Lashley, 1
A. H. Lawton, 1, 3
A. Locke, 6R
O. Riddle, 1R
E. U. Still, 1
W. J. Tomlinson, 4
R. M. Waters, 3R

GEORGIA

Augusta

Med. College of Georgia
R. P. Ahlquist, 1, 3
L. Allen, 1
A. P. Briggs, 2R
P. Dow, 1
T. Findley, Jr., 1
W. K. Hall, 2
W. F. Hamilton, 1
E. C. Jungck, 1
J. W. Remington, 1
S. A. Singal, 2, 5
F. R. Skelton, 4
V. P. Sydenstricker, 5
C. S. Wright, 6

Emory University

Emory Univ.
J. A. Bain, 3
F. Binkley, 2
J. H. U. Brown, 1
H. D. Bruner, 1, 3
W. F. Friedewald, 4
S. W. Gray, 1
J. Haldi, 1
M. Hines, 1
F. Lanni, 6
E. Papageorge, 2
C. C. Pfeiffer, 3
A. F. Richardson, 3
J. A. Russell, 1
M. Tager, 6
H. A. Walker, 3
A. E. Wilhelmi, 2

Georgia—Unclassified
G. Bachmann, 1R
J. H. Birnie, 1
J. T. Godwin, 4
C. E. Hamilton, 1
G. C. Knowlton, 1
D. S. Martin, 6
H. W. Schoenborn, 1
M. Speirs, 5

HAWAII

Honolulu

G. O. Burr, 2, 5
W. A. Gortner, 2
C. D. Miller, 5
T. Nelson, 6

IDAHO

Moscow

Univ. of Idaho
T. B. Keith, 5
A. C. Wiese, 5
E. Woods, 2R, 5R

ILLINOIS

Chicago Area

Abbott Research Labs.
G. H. Berryman, 1
R. D. Coghill, 2
G. M. Everett, 3
D. V. A. Frost, 2, 5
K. Hwang, 3
E. T. Kimura, 3
F. C. McIntire, 2
D. W. MacCorquodale, 2
A. E. Osterberg, 2
R. K. Richards, 1, 3
L. W. Roth, 1, 3
J. R. Schenck, 2
J. D. Taylor, 3

American Med. Assn.
F. T. Jung, 1
A. E. Smith, 3
R. T. Stormont, 3

Argonne Natl. Lab.
A. M. Brues, 1
R. N. Feinstein, 2
A. K. Laird, 4
H. Lisco, 4
H. M. Patt, 1
F. Schlenk, 2
J. Schubert, 2
D. E. Smith, 1
T. N. Tahmisian, 1

Armour Labs.
N. Ercoli, 3
W. J. Haines, 2
K. C. Robbins, 6

Army Med. Nutrition Lab. & Food & Container Inst.
D. H. Calloway, 5
A. L. Sheffner, 2
H. Spector, 5

Chicago Med. School
B. B. Blivaiss, 1
I. Davidsohn, 4, 6
P. P. Foa, 1
A. R. Goldfarb, 2
A. H. Ryan, 1
J. A. Smith, 1
J. E. P. Toman, 1, 3

Loyola Univ.
A. Leimdorfer, 1
H. J. McDonald, 2
J. B. Melchior, 2
Y. T. Oester, 3
C. N. Peiss, 1
W. C. Randall, 1
S. Raska, 1
R. C. Stepto, 4
M. B. Williamson, 2

Michael Reese Hosp.
C. Cohn, 1
M. S. Goldstein, 1
R. Isaacs, 4
A. Kaplan, 1
L. N. Katz, 1
R. Levine, 1
H. Necheles, 1
R. Pick, 1
B. B. Rubenstein, 1
O. Saphir, 4
J. Stamler, 1
A. Tannenbaum, 4

Northwestern Univ.
J. H. Annegers, 1
F. A. Brown, Jr., 1
W. C. Buchbinder, 1
P. C. Bucy, 1
C. A. Dragstedt, 1, 3
D. P. Earle, Jr., 1
E. B. Farnsworth, 3
S. M. Feinberg, 6
L. S. Fosdick, 2
S. Freeman, 1
J. S. Gray, 1
F. S. Grodins, 1
F. J. Haddy, 1
S. C. Harris, 1
O. Hepler, 4
I. M. Klotz, 2
A. J. Kosman, 1
M. M. Kunde, 1R
J. H. Last, 3
A. Lein, 1
M. A. Lipton, 2

L. Lorand, 1
W. C. North, 3
R. Schrek, 4
J. P. Simonds, 4
R. S. Snider, 1
L. A. Sternberger, 6
W. W. Swanson, 2
W. B. Wartman, 4
J. A. Wells, 3
G. P. Youmans, 6
E. A. Zeller, 1

PRESBYTERIAN HOSP.

G. Hass, 4
A. Hiller, 2
D. A. MacFayden, 2

G. D. SEARLE & CO.

D. L. Cook, 3
R. T. Dillon, 2
V. A. Drill, 1, 3
W. E. Hambourger, 3
R. E. Ranney, 1
A. L. Raymond, 2
B. Riegel, 2
F. M. Sturtevant, 3
C. G. Van Arman, 3
I. C. Winter, 3

UNIV. OF CHICAGO

W. Adams, 1
J. G. Allen, 1
A. S. Alving, 1
H. S. Anker, 2
E. S. G. Barron, 2
E. P. Benditt, 4
W. Bloom, 4
N. R. Brewer, 1
M. V. Buell, 2
W. Burrows, 6
P. R. Cannon, 4, 6
A. J. Carlson, 1, 5R
J. J. Ceithaml, 2
T. B. Coolidge, 2
M. E. Davis, 3
W. J. Dieckmann, 3
A. Dorfman, 2
J. Doull, 3
W. L. Doyle, 1
L. R. Dragstedt, 1
K. P. Dubois, 3
L. Eichelberger, 2
E. A. Evans, Jr., 2
R. S. Farr, 6
N. W. Fugo, 3
H. Gaffron, 2
E. M. K. Geiling, 1, 2, 3
I. Gersh, 4
G. Gomori, 4
W. C. Halstead, 1
C. W. Hammond, 4
D. B. Hamre, 6
M. E. Hanke, 2
R. W. Harrison, 6
T. R. Hogness, 2
C. B. Huggins, 1
E. M. Humphreys, 4
J. O. Hutchens, 1
D. J. Ingle, 1
L. O. Jacobson, 4
E. V. Jensen, 2
E. P. Kennedy, 2
A. T. Kenyon, 3
N. Kleitman, 1
H. Kluver, 1
L. M. Kozloff, 2
M. E. Krahl, 2, 3
H. R. Kraybill, 2, 5
C. G. Loosli, 4
A. B. Luckhardt, 1
M. B. Mathews, 2
F. C. McLean, 1, 2R, 3
C. P. Miller, 4, 6
M. Morse, 2
J. W. Moulder, 2
W. D. Neff, 1
R. G. Page, 3
J. F. Perkins, Jr., 1
T. Porter, 5
E. R. Ramey, 1
R. Rhines, 1
H. T. Ricketts, 1
L. J. Roth, 3
B. S. Schweigert, 2, 5
J. E. Snoke, 2
P. E. Steiner, 4
K. Stern, 6
B. L. Strehler, 2
L. G. Taliaferro, 6
W. H. Taliaferro, 6
D. W. Talmage, 6
J. M. Tobias, 1
B. Vennesland, 2
R. W. Wissler, 4, 6
R. E. Zirkle, 1

UNIV. OF ILLINOIS

L. G. Abood, 1
D. I. Abramson, 1
A. Arkin, 1, 3
A. Bachem, 1R
P. Bailey, 1
H. C. Batson, 6
G. A. Bennett, 4
O. Bergeim, 1, 2R
S. B. Binkley, 2
J. E. Bourque, 1
H. Busch, 2
W. J. R. Camp, 3
H. R. Catchpole, 1
C. W. Darrow, 1
A. S. Gordon, 1
E. R. Grant, 1
R. Greenberg, 1
V. Guillemin, Jr., 1
R. C. Ingraham, 1
A. C. Ivy, 1, 5
E. R. Kirch, 2
C. A. Krakower, 4
S. A. Levinson, 4
G. N. Ling, 1
H. E. Longenecker, 2, 5
E. W. Pelikan, 3
C. L. Pirani, 4
C. B. Puestow, 1
M. E. Rafelson, Jr., 2
S. B. Raska, 1
C. I. Reed, 1R
S. R. Rosenthal, 1, 4
H. J. Shaughnessy, 6
T. R. Sherrod, 3
C. M. Smith, 3
F. Steigmann, 3
C. B. Taylor, 1, 4
K. R. W. Unna, 1, 3, 5
G. E. Wakerlin, 1, 3
W. H. Welker, 2R
W. V. Whitehorn, 1
R. J. Winzler, 2

CHICAGO—UNCLASSIFIED

W. C. Alvarez, 1R, 3R
L. Arnold, 4, 6
F. C. Bing, 2, 5
M. C. H. Brookes, 5
N. O. Calloway, 3
A. F. Coburn, 6
E. DaCosta, 1, 5
J. R. Doty, 2
E. Eagle, 1, 3
T. B. Friedman, 6
J. C. Fritz, 5
F. A. Gibbs, 1
C. E. Graham, 2, 5
H. Greengard, 1
E. L. Gustus, 2
B. L. K. Hamilton, 2
M. T. Hanke, 2
S. W. Hier, 2
M. A. Hinrichs, 1
W. S. Hoffmann, 2
B. N. Horwitt, 2
F. R. Hunter, 1
E. Jacobson, 1
V. L. Koenig, 2
J. H. Lewis, 4
J. P. Marbarger, 1
J. C. Mathies, 2
H. A. McGuigan, 1R, 2, 3
G. H. Miller, 3
B. Mortimer, 1
L. B. Nice, 1
H. Popper, 4
H. E. Robinson, 5
I. Sandiford, 2, 5R
R. W. Schayer, 2
M. J. Schiffrin, 1
F. H. Schultz, Jr., 3
H. Schwerma, 1
A. Spohn, 5
A. H. Steinhaus, 1
E. Weiss, 6R
J. Zichis, 6

Galesburg

STATE RESEARCH HOSPITAL

H. E. Himwich, 1
W. A. Himwich, 1

Urbana

UNIV. OF ILLINOIS

H. E. Carter, 2, 5
T. K. Cureton, Jr., 1
R. M. Forbes, 5
G. S. Fraenkel, 5
W. J. Fry, 1
I. C. Gunsalus, 2
T. S. Hamilton, 2, 5
R. G. Hansen, 2
L. M. Henderson, 2
B. C. Johnson, 2, 5
R. E. Johnson, 1, 2, 5
E. Juni, 2
E. E. King, 3
J. Larner, 2
H. H. Mitchell, 2R, 5
C. L. Prosser, 1
W. C. Rose, 2, 5
F. Sargent, II, 1
J. M. Smith, 5
S. Spiegelman, 1
F. R. Steggerda, 1
C. S. Vestling, 2
W. A. Wood, 2

Illinois—Unclassified

S. C. Allen, 1
W. B. Bradley, 1
J. I. Farrell, 1
H. L. Fevold, 2
M. B. Gillis, 5
R. P. Herwick, 3
M. K. Horwitt, 2, 5
J. E. Hunter, 5
R. W. Jackson, 2, 5
H. M. Kaplan, 1
R. W. Keeton, 1, 3
H. C. Mason, 6
J. W. Mull, 2
F. J. Mullin, 1
S. Natelson, 2
S. E. Owen, 1
E. E. Painter-Marcus, 1
J. F. Reinhard, 3
E. E. Rice, 5
E. Smith, 1
D. R. Stewart, 1
E. G. Weir, 1

INDIANA

Bloomington

INDIANA UNIV.

H. G. Day, 2, 5
P. M. Harmon, 1
F. A. Haurowitz, 2, 6
H. R. Mahler, 2
L. S. McClung, 6
P. A. Nicoll, 1
S. Robinson, 1
H. H. Rostorfer, 1
T. J. B. Stier, 1
W. J. Van Wagtendonk, 2
M. R. Warren, 3
G. E. Wertenberger, 1

Evansville

MEAD JOHNSON AND CO.

W. M. Cox, Jr., 2, 5
B. K. Harned, 2, 3
R. C. Little, 1
F. G. McDonald, 2, 5
H. P. Sarett, 2, 5

Indianapolis

ELI LILLY AND CO.

R. C. Anderson, 3
O. K. Behrens, 2
K. K. Chen, 1, 3
G. H. A. Clowes, 2R, 6R
H. A. Dettwiler, 6
C. M. Gruber, Jr., 3
P. N Harris, 3, 4
F. G. Henderson, 3
R. G. Herrmann, 3
W. A. Jamieson, 6R
M. H. Lee, 6
H. M. Powell, 6
M. A. Root, 3
I. H. Slater, 3

INDIANA UNIV.

P. R. Beamer, 4
D. E. Bowman, 2
R. B. Forney, 3
L. W. Freeman, 1

R. N. Harger, 2, 3
H. R. Hulpieu, 3
E. W. Shrigley, 6

INDIANAPOLIS GEN. HOSP.

O. M. Helmer, 2
K. G. Kohlstaedt, 1
R. E. Shipley, 1

INDIANAPOLIS—UNCLASSIFIED

B. E. Abreu, 3
O. D. Bailey, 4
C. A. Bunde, 1
L. C. Weaver, 3

Lafayette

PURDUE UNIV.

B. Axelrod, 2
A. K. Balls, 2
W. M. Beeson, 5
C. J. Carr, 3
C. W. Carrick, 5
R. C. Corley, 2
J. F. Foster, 2
S. M. Hauge, 2, 5
W. A. Hiestand, 1
E. T. Mertz, 2, 5
L. J. Mullins, 1
F. W. Quackenbush, 2
C. Schuck, 5
M. X. Zarrow, 1

Indiana—Unclassified

S. Ansbacher, 2
L. A. Crandall, Jr., 1
W. W. Cravens, 5
C. F. Failey, 2
C. J. Farmer, 2R
R. H. K. Foster, 1, 3
A. H. Free, 2, 5
H. G. Glass, 3
R. K. Lim, 1, 3
W. H. Olson, 1
V. B. Scott, 1
W. C. Sherman, 5
J. N. Spencer, 3
H. E. Stavely, 2

IOWA

Ames

IOWA STATE COLLEGE

S. Aronoff, 2
E. R. Becker, 6
W. Burroughs, 5
D. Catron, 5
E. S. Eppright, 5
D. French, 2
E. A. Hewitt, 1
R. M. Melampy, 1
P. M. Nelson, 5
C. E. Roderuck, 5
F. W. Schueler, 3
R. L. Sinsheimer, 2
F. G. Smith, 2
P. P. Swanson, 5
B. H. Thomas, 5
C. H. Werkman, 2

Iowa City

STATE UNIV. OF IOWA

C. P. Berg, 2, 5
J. H. Bodine, 1
J. R. Bradbury, 1
H. Bull, 2
J. R. Carter, 4
S. C. Cullen, 3
K. Daum, 5
T. C. Evans, 1
R. M. Featherstone, 3
G. E. Folk, Jr., 1
R. B. Gibson, 2R
E. G. Gross, 1, 2, 3
N. M. Hajek, 1
H. M. Hines, 1
S. M. Horvath, 1
J. P. Hummel, 2
C. J. Imig, 1
W. R. Ingram, 1
R. G. Janes, 1
W. S. Jeter, 6
G. Kalnitsky, 2
H. H. Keasling, 3
G. Marsh, 1
C. D. May, 5
A. P. McKee, 6
W. O. Nelson, 1
I. H. Pierce, 3R
C. B. Pittinger, 3
J. R. Porter, 6
J. I. Routh, 2
G. Stearns, 2, 5
J. D. Thomson, 1
W. W. Tuttle, 1
E. D. Warner, 4
T. Winnick, 2

Iowa—Unclassified

R. Beutner, 1R, 3
A. L. Daniels, 2R, 5R
C. B. Knodt, 5

KANSAS

Kansas City and Lawrence

UNIV. OF KANSAS

C. G. Bly, 4
D. C. Darrow, 2
C. M. Downs, 6
H. I. Firminger, 4
J. K. Frenkel, 4
R. E. Green, 3
S. Grisolia, 2
T. R. Hamilton, 4
R. M. Isenberger, 3
K. Jochim, 1
G. N. Loofbourrow, 1
D. J. Mulford, 2
L. Peters, 3
G. C. Rau, 1
N. P. Sherwood, 6
O. O. Stoland, 1R
R. E. Stowell, 4
W. C. Wescoe, 3

Manhattan

KANSAS STATE COLLEGE

L. Ascham, 5
J. S. Hughes, 2R, 5R
M. Kramer, 5
C. A. Leone, 6
D. B. Parrish, 5

Kansas—Unclassified

N. F. Blau, 2
V. G. Haury, 3
F. R. Miller, 4
M. S. Pittman, 5
O. S. Walters, 1
C. C. Wang, 2, 5

KENTUCKY

Fort Knox

ARMY MED. RESEARCH LAB.

R. G. Daggs, 1, 5
H. Jensen, 2
A. D. Keller, 1
W. F. Kocholaty, 2
G. W. Molnar, 1
J. B. Storer, 1
U. F. Westphal, 2

Lexington

UNIV. OF KENTUCKY

L. L. Boyarsky, 1
G. D. Buckner, 2R
J. C. Humphries, 6
J. S. McHargue, 2R
M. Scherago, 6

PHS HOSP.

J. D. Ainslie, 6
A. J. Eisenman, 2
C. F. Essig, 1
H. F. Fraser, 3
H. Isbell, 3
A. Wikler, 3

Louisville

UNIV. OF KENTUCKY

W. A. Brodsky, 1
W. F. Cantrell, 3
J. P. Holt, 1
P. K. Knoefel, 3
H. Lawson, 1
M. M. Lipton, 6
W. S. Rehm, Jr., 1
J. F. Taylor, 2
S. M. Walker, 1

Kentucky—Unclassified

W. L. Adams, 3
K. P. McConnell, 2
A. J. Steigman, 6

LOUISIANA

Baton Rouge and New Orleans

LOUISIANA STATE UNIV.

R. Ashman, 1R
F. G. Brazda, 2
G. J. Buddingh, 4
E. Bueding, 2, 3
L. Churney, 1
R. A. Coulson, 2
S. H. Durlacher, 1, 4
A. S. Harris, 1
T. Hernandez, 1
R. L. Holman, 4
W. E. Jaques, 4
H. C. McGill, Jr., 4
L. L. Rusoff, 5
L. A. Toth, 1
J. H. Trapold, 3
V. A. Williams, 2
C. Ray Womack, 4

OCHSNER CLINIC

G. M. Carrera, 4
O. Schales, 2
A. Segaloff, 4

TULANE UNIV.

L. M. N. Bach, 1
H. Baer, 6
C. E. Dunlap, 4
E. Farber, 4
J. P. Fox, 6
G. A. Goldsmith, 5
J. K. Hampton, Jr., 1
W. H. Harris, 4
C. D. Hendley, 1
R. Hodes, 1
H. E. King, 1
F. N. Martin, Jr., 3
H. S. Mayerson, 1
O. N. Miller, 2
S. M. Peacock, Jr., 1
M. F. Shaffer, 4, 6
K. Wasserman, 1
W. B. Wendel, 2
A. G. C. White, 2
W. S. Wilde, 1

NEW ORLEANS—UNCLASSIFIED

A. M. Altschul, 2
T. C. Sherwood, 1

MAINE

F. G. Benedict, 1R, 2R
J. L. Fuller, 1

MARYLAND

Army Chemical Center

CHEMICAL CORPS MED. LABS.

R. S. Anderson, 1
R. V. Brown, 1, 3
L. E. Chadwick, 1
W. H. Chambers, 1, 5
F. N. Craig, 1
D. B. Dill, 1, 2
A. J. Dziemian, 1
E. LeB. Gray, 1
E. R. Hart, 3
C. C. Hassett, 1
C. M. Herget, 1
R. G. Horton, 1
J. R. M. Innes, 4
B. J. Jandorf, 2
S. Krop, 1, 3
A. S. Marrazzi, 1, 3
B. P. McNamara, 3
H. O. Michel, 2
F. W. Oberst, 2
N. K. Schaffer, 2
W. H. Summerson, 2
H. J. Trurnit, 1
C. tum Suden, 1
C. G. Wilber, 1
J. H. Wills, 1, 3

Baltimore

JOHNS HOPKINS HOSP. AND UNIV.

E. C. Andrus, 1
A. M. Baetjer, 1
F. B. Bang, 4
P. Bard, 1
F. W. Barnes, Jr., 2
I. L. Bennett, Jr., 6
K. C. Blanchard, 3
D. Bodian, 6

A. M. Chesney, 4
F. P. Chinard, 2
B. F. Chow, 2, 5, 6
W. M. Clark, 2R
L. E. Cluff, 6
S. P. Colowick, 2
P. W. Davies, 1
V. G. Dethier, 1
W. M. Firor, 1
J. S. Friedenwald, 1
W. H. Gantt, 1, 3
L. N. Gay, 6
F. G. Germuth, Jr., 6
G. O. Gey, 1
A. L. Grafflin, 1
A. A. Green, 2
D. Grob, 1
A. M. Harvey, 1, 3
L. Hellerman, 2
R. M. Herriott, 2
E. Howard, 1
H. A. Howe. 6
D. P. Jackson, 1
N. O. Kaplan, 2
S. W. Kuffler, 1
O. R. Langworthy, 1
M. G. Larrabee, 1
L. Lasagna, 3
D. H. K. Lee, 1
A. L. Lehninger, 2, 5
J. L. Lilienthal, Jr., 1
J. W. Magladery, 1
E. K. Marshall, Jr., 1R, 2, 3
M. M. Mayer, 6
E. W. Maynert, 3
E. B. McCollum 5
E. V. McCollum, 2R, 5
W. D. McElroy, 1, 2
G. S. Mirick, 6
C. T. Morgan, 1
V. B. Mountcastle, 1
G. H. Mudge, 1
V. A. Najjar, 2
A. Nason, 2
A. G. Osler, 6
A. B. Otis, 1
E. A. Park, 4
D. F. Proctor, 1
J. F. Reback, 6
A. R. Rich, 4
C. P. Richter, 1
R. L. Riley, 1
J. E. Rose, 1
M. Rosenfeld, 3
W. W. Scott, 1
C. D. Snyder, 1R
S. A. Talbot, 1
C. B. Thomas, 1
S. S. Tower, 1
A. E. Walker, 1
P. Whittlesey, 3
A. C. Woods, 6
K. L. Zierler, 1

Univ. of Maryland

W. R. Amberson, 1
M. A. Andersch, 2
G. F. Combs, 5
F. P. Ferguson, 1
R. G. Grenell, 1
O. G. Harne, 1R
J. C. Krantz, Jr., 3
R. H. Oster. 1
E. G. Schmidt. 2
J. C. Shaw, 1
D. C. Smith, 1
E. B. Truitt, 3
C. L. Wisseman, Jr., 6

Baltimore—Unclassified

C. E. Bills, 2, 5
J. H. Brewer, 6
J. H. Clark, 1
A. P. Gagge, 1
H. H. Gordon, 5
A. W. Hetherington, 1
J. E. Howard, 1
D. I. Macht, 1R, 3
A. D. Pollack, 4
S. M. R. Reynolds, 1
N. W. Shock, 1
G. F. Sutherland, 1

Frederick

U. S. Army Chemical Corps, Camp Detrick

J. B. Bateman, 1
A. K. Boor, 2
C. R. Brewer, 2
M. W. Slein, 2
C. B. Thorne, 2
G. G. Wright, 6

Maryland—Unclassified

P. J. Crittenden, 1, 3
J. L. King, 1R
F. D. Maurer, 6
J. D. McCarrell, 1

MASSACHUSETTS

Amherst

Univ. of Massachusetts

A. D. Holmes, 2R, 5R
H. S. Mitchell, 5
A. W. Wertz, 5

Boston Area

Beth Israel Hosp.

B. Alexander, 2
H. L. Blumgart, 1
A. S. Freedberg, 1

Boston City Hosp.

W. B. Castle, 4
C. S. Davidson, 5
M. Finland, 6
E. H. Kass, 6
S. Maddock, 4
G. K. Mallory, 4
N. Zamcheck, 4

Boston Univ.

E. E. Baker, 6
D. L. Belding, 4
W. C. Boyd, 6
E. H. Dearborn, 3
E. M. Follensby, 6
G. P. Fulton, 1
A. H. Hegnauer, 1
E. R. Loew, 1, 3
J. M. Looney, 2
F. C. Lowell, 6
B. R. Lutz, 1
B. S. Walker, 2
L. C. Wyman, 1

Harvard Univ.

E. G. Ball, 2
A. C. Barger, 1
G. P. Berry, 6
J. R. Blair, 1
K. Bloch, 3
M. Brin, 2
B. S. Burke, 5
E. S. Castle, 1
A. H. Coons, 6
J. M. Craig, 4
M. F. Crawford, 1
W. J. Crozier, 1
P. B. Dews, 3
L. Dexter, 1
M. D. Eaton, 6
J. T. Edsall, 2
J. F. Enders, 6
S. Farber, 4
B. G. Ferris, Jr., 1
R. M. Ferry, 2
A. P. Fishman, 1
C. H. Fiske, 2
A. Forbes, 1
W. H. Forbes, 1
M. J. Fregley, 1
D. G. Friend, 3
J. L. Gamble, 2R, 5R
E. L. Gasteiger, 1
O. Gates, 4
R. P. Geyer, 5
W. T. Goodale, 1
R. O. Greep, 1
D. R. Griffin, 1
R. E. Gross, 4
J. H. Hanks, 6
A. B. Hastings, 1, 2, 5
F. W. Haynes, 1
D. M. Hegsted, 5
E. Henneman, 1
F. L. Hisaw, 1
R. H. Hubbard, 2
M. L. Karnovsky, 2
C. J. Kensler, 3
O. Krayer, 3
E. M. Landis, 1
C. Liu, 6
C. P. Lyman, 1
B. Magasanik, 2
S. Malkiel, 6
J. Mayer, 1, 5
R. A. McFarland, 1
J. Mead, 1
G. A. Miller, 1
P. L. Munson, 2, 3
J. P. O'Hare, 4R
J. L. Oncley, 2
J. R. Pappenheimer, 1
A. Pope, 2
A. C. Redfield, 1
F. L. Rodkey, 2
H. F. Root, 5
D. O. Rudin, 1
J. H. Shaw, 5
F. F. Snyder, 1
J. C. Snyder, 6
A. K. Solomon, 1
F. J. Stare, 2, 5
S. S. Stevens, 1
E. Suter, 6
G. W. Thorn, 1
H. C. Trimble, 2, 5
H. E. Umbarger, 2
C. A. Villee, Jr., 2
B. H. Waksman, 6
G. Wald, 1, 2
C. W. Walter, 4
S. Warren, 4
B. K. Watson, 6
T. H. Weller, 6
J. H. Welsh, 1
J. L. Whittenberger, 1
C. M. Williams, 1
G. B. Wislocki, 1
J. Wyman, Jr., 1

Massachusetts General Hosp.

J. Aub, 1, 5
W. Bauer, 1
H. K. Beecher, 1, 3
M. A. B. Brazier, 1
J. P. Bunker, 3
B. Castleman, 4
L. Dienes, 6
G. Eisenman, 1
L. L. Engel, 2
J. Gergely, 2
L. I. Goldberg, 3
J. D. Gregory, 2
J. Gross, 4
R. W. Jeanloz, 2
M. E. Jones, 2
E. B. Keller, 2
K. K. Kimura, 3
S. J. Liao, 6
F. Lipmann, 2
F. M. Rackemann, 6
K. Schmid, 2
M. Soodak, 2
P. Zamecnik, 2

Massachusetts Inst. of Tech.

R. S. Harris, 5
J. C. R. Licklider, 1
M. Maxfield, 1
W. S. McCulloch, 1
F. O. Schmidtt, 1
I. W. Sizer, 1, 2
P. D. Wall, 1
D. F. Waugh, 1
L. G. Wesson, 2R, 3

New England Deaconess Hosp.

E. P. Joslin, 5R
H. B. Kenton, 6
W. E. Knox, 2
E. H. Tompkins, 4
J. L. Tullis, 4

Tufts Univ

E. B. Astwood, 1
P. Bernfeld, 2
A. Canzanelli, 1
B. B. Clark, 3
B. E. Etsten, 3
W. H. Fishman, 2
E. H. Frieden, 2
Z. Hadidian, 1
J. M. Hayman, Jr., 1, 3
E. Heinz, 2
T. H. Li, 3
E. J. Masoro, 1
M. M. Nothman, 3
M. S. Raben, 1

D. Rapport, 1
S. L. Robbins, 4
K. D. Roeder, 1
R. Rustigian, 6
G. Schmidt, 2
M. W. Seraydarian, 1
C.-Y. Sung, 3
S. J. Thannhauser, 2
A. P. Truant, 3

BOSTON AREA—UNCLASSIFIED

F. N. Allan, 4
E. A. Brown, 6
M. F. Crawford, 1
C. Floyd, 6
J. Folch, 2
H. S. Forbes, 1R
J. Furth, 4
G. P. Grabfield, 3R
M. G. Gray, 3
A. Gulick, 1R, 5R
H. L. Higgins, 1, 5R
J. Ipsen, Jr., 6
G. V. Mann, 5
J. W. Mavor, 1R
F. H. McCrudden, 2R
Z. B. Miller, 2
J. H. Pratt, 1, 3R, 4
L. Rane, 6
S. C. Sommers, 4
S. E. Steiman, 1
M. Stefanini, 1
P. D. White, 3
A. G. Young, 3

Natick

QM RESEARCH AND DEVELOPMENT CTR.

D. E. Bass, 1
A. F. Henschel, 1
G. L. Miller, 2
A. H. Woodcock, 1

Shrewsbury

WORCESTER FOUNDATION

J. R. Bergen, 1
M. C. Chang, 1
R. I. Dorfman, 2
F. Elmadjian, 1
M. Hayano, 2
O. M. Hechter, 1
H. Hoagland, 1
G. Pincus, 1
F. G. K. Savard, 2
D. Stone, 2

South Hadley

MT. HOLYOKE COLLEGE

C. Haywood, 1
J. Muus, 2
A. H. Turner, 1R

Woods Hole

MARINE BIOLOGICAL LABS.

A. G. Marshak, 1
A. P. Mathews, 1R, 2R
A. Szent-Gyorgyi, 2

Massachusetts—Unclassified

T. M. Carpenter, 1R, 2R, 5R
M. E. Collett, 1
V. C. Dewey, 2
C. K. Drinker, 1
H. Freeman, 1
W. Hale, 1R, 3R
J. O. Holmes, 2, 5
R. G. Hoskins, 1R
P. V. Karpovich, 1
G. W. Kidder, 2
S. A. Matthews, 1
F. W. Maurer, 1
H. E. Munsell, 5
F. H. Pratt, 1R
O. W. Richards, 1
M. Sampson, 5
E. V. Smith, 6
H. Wu, 2

MICHIGAN

Ann Arbor

UNIV. OF MICHIGAN

W. W. Ackermann, 2, 6
B. L. Baker, 1
J. W. Bean, 1
F. H. Bethell, 4
W. D. Block, 2
D. F. Bohr, 1
C. R. Brassfield, 1
T. M. Brody, 3
D. E. S. Brown, 1
G. C. Brown, 6
J. P. Chandler, 2, 5
H. N. Christensen, 2
A. A. Christman, 2
K. W. Cochran, 3
J. W. Conn, 5
M. J. Coon, 2
F. M. Davenport, 6
E. F. Domino, 3
H. C. Eckstein, 2
R. C. Elderfield, 2
E. E. Evans, 6
T. Francis, Jr., 4, 6
R. L. Garner, 2
R. W. Gerard, 1
R. C. Hendrix, 4
A. V. Hennessy, 6
S. W. Hoobler, 1
K. E. Jensen, 6
M. W. Johnston, 2
R. L. Kahn, 4, 6
L. H. Louis, 2
L. Miller, 2
F. G. Novy, 1R, 2R, 4R, 4H, 6H
W. J. Nungester, 6
T. R. Riggs, 2
S. Roseman, 2
M. H. Seevers, 1, 3
C. C. Sturgis, 4
C. V. Weller, 4
A. H. Wheeler, 6
L. A. Woods, 3
P. A. Wright, 1

Detroit

HENRY FORD HOSP.

P. D. Bartlett, 2
D. H. Basinski, 2
W. T. Beher, 2
V. G. Behrmann, 1
O. H. Gaebler, 2
F. W. Hartman, 4
E. B. Kearney, 2
G. A. Logrippo, 6
J. W. Rebuck, 4
T. P. Singer, 2

PARKE DAVIS & CO.

O. Bird, 2
A. C. Bratton, Jr., 3
R. A. Brown, 5
G. Chen, 3
A. J. Glazko, 1
O. Kamm, 2R
D. A. McGinty, 1
I. W. McLean, Jr., 6
J. J. Pfiffner, 1, 2, 5
A. R. Taylor, 2, 6
C. V. Winder, 1, 3

WAYNE UNIV.

F. G. Evans, 1
E. Gardner, 1
E. B. Gerheim, 1, 6
H. W. Hays, 3
R. M. Johnson, 2
C. G. Johnston, 1
A. C. Kuyper, 2
W. O. Maddock, 1
F. A. Morin, 1
A. U. Orten, 5
J. M. Orten, 2, 5
T. L. Patterson, 1
D. J. Sandweiss, 1
W. H. Seegers, 1, 2
A. H. Smith, 2, 5
P. G. Stansly, 2
A. J. Vorwald, 4

DETROIT—UNCLASSIFIED

A. J. Derbyshire, 1
E. B. Gerheim, 6
A. Golden, 4
M. Goodman, 6
I. M. Hoobler, 2, 5
P. A. Kober, 2R
J. Nyboer, 1
B. Pearson, 4

East Lansing

MICHIGAN STATE UNIV.

B. V. Alfredson, 1
R. S. Bandurski, 2
W. D. Brewer, 5
R. U. Byerrum, 2
D. C. Cederquist, 5
W. D. Collings, 1
M. Dye, 2, 5
R. J. Evans, 5
J. L. Fairlie, 2
R. M. Herbst, 2
C. A. Hoppert, 5
C. F. Huffman, 5
R. W. Luecke, 5
J. Meites, 1, 5
M. A. Ohlson, 5
E. P. Reineke, 1
H. M. Sell, 2
L. F. Wolterink, 1

Kalamazoo

UPJOHN CO.

W. B. Bass, 3
G. C. Bond, 6
G. F. Cartland, 2
W. A. Freyburger, Jr., 3
M. E. Greig, 3
R. W. Heinle, 5
M. H. Kuizenga, 2
W. F. McLimans, 6
C. E. Meyer, 2
P. H. Seay, 3
M. J. Vander Brook, 3

Michigan—Unclassified

S. H. Bartley, 1
M. B. Chenoweth, 3
V. V. Cole, 3
W. H. Funderburk, 3
R. Y. Gottschall, 6
O. M. Gruhzit, 4
C. J. Herrick, 1R
D. D. Irish, 3
H. G. Kobrat, 1
J. D. Mann, 4
C. W. Muehlberger, 3
C. L. Schneider, 1
G. N. Smith, 2
F. E. Visscher, 1

MINNESOTA

Minneapolis

UNIV. OF MINNESOTA

J. T. Anderson, 5
W. D. Armstrong, 2
A. B. Baker, 4
C. P. Barnum, Jr., 2
E. T. Bell, 4
R. N. Bieter, 3
P. D. Boyer, 2
E. B Brown, Jr., 1
J. Brozek, 1
B. Campbell, 1
H. M. Cavert, 1
S. L. Cohen, 2
E. M. Cranston, 3
J. R. Dawson, Jr., 4
G. T. Evans, 1
G. Fahr, 1R, 3R
I. D. Frantz, 2
W. F. Geddes, 2
E. Gellhorn, 1
D. Glick, 2
M. Graubard, 1
F. Halberg, 1
B. Hoelscher, 1
F. W. Hoffbauer, 4
J. A. Johnson, 1
C. Kennedy, 2R, 5R
A. Keys, 1, 2
J. T. King, 1
F. J. Kottke, 1
W. G. Kubicek, 1
H. C. Lichstein, 2
N. Lifson, 1
V. Lorber, 1
C. Martinez, 1
I. McQuarrie, 1, 4, 5
W. F. Scherer, 6
O. H. Schmitt, 1
S. Schwartz, 2
E. Simonson, 1
L. I. Smith, 2
W. W. Spink, 6
A. V. Stoesser, 6
J. T. Syverton, 4, 6
H. L. Taylor, 1
M. B. Visscher, 1
R. W. Von Korff, 2
O. H. Wangensteen, 1, 4
C. J. Watson, 2

D. W. Watson, 6
H. S. Wells, 1
W. L. Williams, 1, 4
H. N. Wright, 3

MINNEAPOLIS—UNCLASSIFIED

C. Chatfield, 5
H. R. Gutmann, 2
G. A. Matson, 6
F. W. Wittich, 6

Rochester

MAYO CLINIC AND FOUNDATION

R. C. Adams, 3
A. Albert, 1
S. Amberg, 1R, 2R, 3R
E. J. Baldes, 1
W. A. Bennett, 4
R. G. Bickford, 1
J. L. Bollman, 4
H. B. Burchell, 1
H. R. Butt, 5
C. F. Code, 1, 3
K. B. Corbin, 1
J. E. Edwards, 4
H. E. Essex, 1, 3
A. Faulconer, Jr., 3
W. H. Feldman, 4
E. V. Flock, 2
W. S. Fowler, 1
J. H. Grindlay, 1
R. A. Groat, 1
G. A. Hallenbeck, 1
J. F. Herrick, 1
G. M. Higgins, 5
W. H. Hollinshead, 1
V. Johnson, 1
A. G. Karlson, 4
N. M. Keith, 1, 3R, 4
E. H. Lambert, 1
J. S. Lundy, 3
T. B. Magath, 1
F. C. Mann, 1, 4R
F. D. Mann, 1, 4
H. L. Mason, 2
D. R. Mathieson, 6
V. R. Mattox, 2
K. N. Ogle, 1
C. A. Owen, Jr., 1, 4
M. H. Power, 2
G. M. Roth, 1
A. H. Sanford, 6R
C. Sheard, 1
H. J. C. Swan, 1
K. G. Wakim, 1, 3
R. M. Wilder, 1R, 4R, 5R
E. H. Wood, 1, 3

St. Paul

UNIV. OF MINNESOTA

D. R. Briggs, 2
R. Jenness, 2
J. M Leichsenring, 5
I. E. Liener, 2, 5
W. E. Petersen, 1
M. H. Roepke, 3
M. O. Schultze, 2, 5
H. B. Steinbach, 1

Minnesota—Unclassified

E. D. Brown, 1R, 3R
R. T. Holman, 2
W. O. Lundberg, 2
B. F. Steele, 5

MISSISSIPPI

Jackson

UNIV. OF MISSISSIPPI

A. C. Guyton, 1
J. D. Hardy, 1
J. G. Hilton, 3
J. C. Rice, 3

MISSOURI

Columbia

UNIV. OF MISSOURI

B. Bisbey, 5R
S. Brody, 1, 2, 5
J. E. Flynn, 4
A. G. Hogan, 2R, 5
R. L. Jackson, 5
T. D. Luckey, 5
D. T. Mayer, 2
D. K. Meyer, 1
B. L. O'Dell, 2, 5
W. S. Platner, 1
L. E. Thomas, 2
B. A. Westfall, 1, 3

Kirksville

KIRKSVILLE COLLEGE OF OSTEOPATHY

J. S. Denslow, 1
F. T. Dunn, 1
S. F. Howell, 2
I. M. Korr, 1

St. Louis

ST. LOUIS UNIV.

G. O. Broun, 4
E. A. Doisy, 2
E. A. Doisy, Jr., 2
W. H. Elliott, 2
F. E. Franke, 1
A. B. Hertzman, 1
P. A. Katzman, 2
I. Lieberman, 2
B. J. Luyet, 1
X. J. Musacchia, 1
C. H. Neilson, 2
E. E. Nelson, 3
H. Pinkerton, 4
A. W. Richardson, 1
S. A. Thayer, 2

WASHINGTON UNIV.

W. E. Allen, 1
P. Berg, 2
G. H. Bishop, 1
D. H. Brown, 2
S. C. Bukantz, 6
M. Cohen 2
S. Cohen, 2
C. F. Cori, 2
G. T. Cori, 2
R. K. Crane, 2
E. W. Dempsey, 1
H. N. Eisen, 6
J. Erlanger, 1R
M. E. Friedkin, 2
R. F. Furchgott, 2, 3
A. S. Gilson, Jr., 1
R. J. Glaser, 4
H. T. Graham, 1, 3
C. G. Harford, 6
A. F. Hartmann, 2
W. S. Hartroft, 4
P. Heinbecker, 1
F. E. Hunter, Jr., 2, 3
M. D. Kamen, 2
J. E. Kirk, 2
A. Kornberg, 2
G. L. Kreezer, 1
L. Loeb, 1R, 4
O. H. Lowry, 2, 3
C. V. Moore, 4, 5
C. A. Moyer, 1
P. W. Preisler, 2
E. Ronzoni, 2
A. Roos, 1
T. Rosebury, 6
G. Saslow, 1
J. A. Saxton, Jr., 4
G. M. Schoepfle, 1
H. A. Schroeder, 1
P. A. Shaffer, 2R
R. E. Shank, 2
I. L. Shechmeister, 6
M. Silberberg, 4
R. Silberberg, 4
J. R. Smith, 1
A. Surtshin, 1
P. L. Varney, 6
S. F. Velick, 2
T. E. Weichselbaum, 2
H. L. White, 1
R. D. Williams, 5

ST. LOUIS—UNCLASSIFIED

R. M. Bethke, 2, 5
H. T. Blumenthal, 4
H. Davis, 1
H. M. Dixon, 4
M. S. Fleisher, 4, 6
W. J. Siebert, 4
M. Somogyi, 2
R. W. Stoughton, 3

Missouri—Unclassified

L. L. Eisenbrandt, 3
R. L. Ferguson, 4
C. C. Guthrie, 1R, 3R
S. R. Johnson, 5
Z. Wallen-Lawrence, 2
C. J. Weber, 2

MONTANA

Hamilton

PHS, ROCKY MOUNTAIN LAB.

D. B. Lackman, 6
Carl L. Larson, 6
S. B. Salvin, 6

Montana—Unclassified

E. J. Eichwald, 4

NEBRASKA

Lincoln

UNIV. OF NEBRASKA

R. Borchers, 5
R. E. Feeney, 2
H. G. O. Holck, 1R, 3
W. E. Militzer, 2
C. Olsen, Jr., 4
D. M. Pace, 1
J. H. Pazur, 2

Omaha

CREIGHTON UNIV.

J. Ferguson, 1
J. R. Johnson, 1
V. E. Levine, 2
C. M. Wilhelmj, 1

UNIV. OF NEBRASKA

A. L. Bennett, 1
A. R. McIntyre, 1, 3
S. Morgulis, 1R, 2R
J. R. Schenken, 4

OMAHA—UNCLASSIFIED

A. L. Dunn, 1

NEW HAMPSHIRE

O. W. Barlow, 3
R. P. Forster, 1
E. G. Ritzman, 5R
E. S. Robinson, 6R
A. E. Teeri, 5

NEW JERSEY

New Brunswick

RUTGERS UNIV.

J. B. Allison, 2, 5
A. A. Boyden, 6
J. C. Burke, 3
V. Groupe, 6
M. Heidelberger, 2R, 6
J. H. Leathem, 1
P. D. Sturkie, 1
M. W. Taylor, 5
M. Upton, 1
W. W. Wainio, 2

E. R. SQUIBB AND SONS

W. E. Bunney, 6
B. N. Craver, 3
J. D. Dutcher, 2
J. Fried, 2
W. L. Koerber, 6
J. O. Lampen, 2
C. R. Linegar, 3
C. M. McKee, 6
B. Rubin, 3
O. Wintersteiner, 2

NEW BRUNSWICK — UNCLASSIFIED

C. D. Hendley, 1
G. Lu, 3
M. A. Reid, 1
W. Van Winkle, Jr. 3

Nutley

HOFFMANN-LA ROCHE, INC.

J. C. Bauernfeind, 5
W. M. Benson, 3
J. M. Cooperman, 5
L. O. Randall, 2, 3
S. H. Rubin, 2, 5
W. B. Schallek, 1
E. L. Severinghaus, 2, 5

Princeton

PRINCETON UNIV.

H. F. Blum, 1
A. M. Chase, 1
E. N. Harvey, 1, 2R
F. H. Johnson, 1
E. C. Kendall, 1, 2R, 4
A. K. Parpart, 1
W. W. Swingle, 1

Rahway

MERCK AND CO.

G. E. Boxer, 2
G. A. Emerson, 5
K. Folkers, 2, 5
J. E. Hawkins, Jr., 1
R. T. Major, 2
H. Molitor, 1, 3
C. W. Mushett, 4
E. L. Oginski, 2
D. F. Opdyke, 1
W. H. Ott, 5
C. C. Porter, 2
H. J. Robinson, 3
O. H. Siegmund, 3
R. H. Silber, 2
M. Solotorovsky, 6
R. B. Stebbins, 4
H. C. Stoerk, 4
W. W. Umbreit, 2
C. A. Winter, 1, 3

Raritan

ORTHO RESEARCH FOUNDATION

C. G. Hartman, 1
P. Levine, 6
N. Millman, 1
F. Rosen, 5

Summit

CIBA PHARMACEUTICAL PRODUCTS, INC.

C J. De Boer, 6
R. Gaunt, 1
A. J. Plummer, 3
J. A. Schneider, 3
F. F. Yonkman, 3

New Jersey—Unclassified

M. L. Anson, 2
F. M. Berger, 3
C. H. Bunting, 4R
R. L. Cahen, 3
G. P. Child, 3
A. F. Coca, 6H
H. Cohen, 1
B. F. Daubert, 2
L. W. Famulener, 6
W. M. Govier, 3
E. C. Hay, 1
J. Hillier, 1
E. E. Howe, 2
D. E. Hutcheon, 3
S. Irwin, 3
C. H. Krieger, 5
B. MacPhillamy, 6
D. Melnick, 2, 5
R. H. Muller, 6
J. R. Oliver, 1, 4
L. Pearce, 4
C. C. Scott, 3
E. L. Scott, 1R, 2R
J. V. Scudi, 2, 3, 5
C. A. Smith, 1R
W. J. Snape, 1
C. Ten Broeck, 4
H. W. Titus, 2, 5
D. Tourtellotte, 5
L. A. Underkofler, 2
R. E. Waterman, 2
R. R. Williams, 2R, 5
M. M. Winbury, 3

NEW MEXICO

Albuquerque

W. J. Eversole, 1
F. G. Hirsch, 1
B. B. Longwell, 2
U. C. Luft, 1
E. A. Pinson, 1

Los Alamos

U. S. ATOMIC ENERGY COMM.

R. G. Gould, 2
W. H. Langham, 2
C. C. Lushbaugh, 4
S. Shlaer, 1

NEW YORK

Albany

ALBANY MED. COLLEGE

R. S. Alexander, 1
F. C. Ferguson, Jr., 3
G. S. Kanter, 1
M. N. Levy, 1
J. A. Muntz, 2
H. C. Wiggers, 1
A. W. Wright, 4

N. Y. STATE DEPT. OF HEALTH

R. Brown, 6
J. M. Coffey, 6
S. M. Cohen, 6
G. Dalldorf, 4, 6
A. H Harris, 2nd, 6
E. L. Hazen, 6
J. L. Hendry, 6
M. C. Pangborn, 2
M. Shaw, 6
G. M. Sickles, 6
G. R. Sickles, 6
J. J. Spitzer, 1
W. R. Thompson, 2
M. W. Wheeler, 6

Buffalo

UNIV. OF BUFFALO

E. M. Bridge, 2, 3
G. Clark, 1
J. G. Edwards, 1
F. R. Griffith, Jr., 1, 5
H. K. Iwamoto, 3
G. F. Koepf, 1
W. Langley, 2
C. U. Lowe, 4
J. F. Mohn, 6
D. S. Riggs, 3
S. Rodbard, 1
S. Schulman, 2
K. L. Terplan, 4

BUFFALO—UNCLASSIFIED

C. M. Ambrus, 3
J. L. Ambrus, 3
C. Carruthers, 2
D. T. Karzon, 6
E. Neter, 6
W. K. Noell, 1
D. Pressman, 2, 6
J. T. Roberts, 1
M. Schlamowitz, 2
E. Witebsky, 6

Ithaca

CORNELL UNIV.

J. A. Baker, 4
L. J. Daniel, 2
R. W. Dougherty, 1
H. H. Dukes, 1
J. A. Dye, 1
H. M. Hauck, 5
F. W. Hill, 5
F. A. Johnston, 5
H. S. Liddell, 1
J. K. Loosli, 5
L. A. Maynard, 2R, 5
C. M. McCay, 2, 5
W. L. Nelson, 5
L. C. Norris, 2, 5
A. L. Romanoff, 1
M. L. Scott, 2, 5
S. E. Smith, 5
H. H. Williams, 2, 5

New York City Area

ALBERT EINSTEIN COLLEGE

H. L. Barnett, 1
H. D. Hoberman, 2
C. C. Hunt, 1
B. Kisch, 1
H. D. Lauson, 1
L. R. Orkin, 3
A. White, 2, 5

AMERICAN CYANAMID CO., RESEARCH DIV.

H. P. Broquist, 2
H. R. Cox, 6
R. W. Cunningham, 3
I. S. Danielson, 2
W. C. Grant, 1
W. D. Gray, 3
B. L. Hutchings, 2
T. H. Jukes, 2, 5
H. Koprowski, 6
J. T. Litchfield, Jr., 3
A. W. Moyer, 6
J. J. Oleson, 2
R. O. Roblin, Jr., 2
C. B. Shaffer, 3
G. R. Sharpless, 5
N. H. Sloane, 2
E. L. R. Stokstad, 2, 5
W. L. Williams, 2

BROOKHAVEN NATL. LAB.

G. C. Cotzias, 4
E. P. Cronkite, 1
H. J. Curtis, 1
L. K. Dahl, 4
L. E. Farr, 4
M. Gibbs, 2
L. V. Hankes, 2
W. L. Hughes, 2
J. R. Klein, 2
D. E. Koshland, Jr., 2
M. E. Koshland, 6
L. F. Nims, 1
J. S. Robertson, 1
W. H. Shreeve, 2
R. Steele, 2
D. D. Van Slyke, 2

BROOKLYN COLLEGE

H. G. Albaum, 2
R. H. Cheney, 3
D. Fetter, 1
R. M. Guttman, 1

COLLEGE OF THE CITY OF NEW YORK

E. Borek, 2
A. J. Goldforb, 1
B. Harrow, 2
A. Mazur, 2
R. W. Root, 1
G. C. H. Stone, 2

COLUMBIA UNIV.

T. H. Allen, 1
H. G. Barker, 1
J. A. Behre, 2
B. N. Berg, 4
M. Bevans, 4
S. E. Bradley, 1
M. L. Caldwell, 2, 5
E. Chargaff, 2
L. J. Cizek, 1
H. T. Clarke, 2
R. W. Coon, 4
D. Cowen, 4
R. C. Darling, 1
C. R. Dawson, 2
I. J. Deyrup, 1
L. A. Dietrich, 2
Z. Dische, 2
A. R. Dochez, 4R, 6R
H. Elftman, 1
E. T. Engle, 1
A. P. Fishman, 1
G. L. Foster, 3
A. Gelhorn, 3
W. J. Gies, 1R, 2R, 3R
A. Gilman, 1, 3
C. H. Graham, 1
M. I. Gregersen, 1
H. Grundfest, 1
S. P. Halbert, 6
F. Hanger, 6
T. Hayashi, 1
C. Howe, 6
J. W. Jailer, 1
C. W. Jungeblut, 4, 6
E. A. Kabat, 2, 6
M. Karshan, 2
H. Kaunitz, 4
F. E. Kendall, 6
H. D. Kesten, 4
C. G. King, 2, 5
C. Landis, 1
D. L. Larson, 6
B. M. Levy, 4
R. L. Levy, 3
C. C. Lieb, 1R, 3R
S. Lieberman, 2
F. V. Lucas, 4
G. MacLeod, 2R, 5R
I. Mandl, 2
L. C. Mark, 3

F. A. Mettler, 1
K. Meyer, 2
D. H. Moore, 1
D. Nachmansohn, 1, 2
W. L. Nastuk, 1
C. T. Nelson, 6
J. M. Nelson, 2R
J. L. Nickerson, 1
E. T. Oppenheimer, 1
E. M. Papper, 3
C. Ragan, 1
L. Reiner, 2, 6
D. W. Richards, 1
D. Rittenberg, 2
W. S. Root, 1
H. M. Rose, 6
R. Rugh, 1
B. C. Seegal, 4, 6
D. Seegal, 6
D. Shemin, 2
L. B. Shettles, 1
H. P. Smith, 1, 4
P. E. Smith, 1R
W. M. Sperry, 2
D. B. Sprinson, 2
E. Sproul, 4
W. B. Stewart, 4
J. V. Taggart, 1
C. M. Taylor, 5
R. M. Taylor, 1
A. W. Thomas, 2
E. M. Vahlteich, 5
H. B. Van Dyke, 1, 3
H. Waelsch, 2
W. W. Walcott, 1
S. Wang, 1, 3
R. Wegria, 1, 3
I. B. Wilson, 2
A. Wolf, 4
S. Zamenhof, 2

CORNELL UNIV. MED. COLLEGE

S. Baez, 1
R. W. Bonsnes, 2
A. Brunschwig, 4
J. H. Burchenal, 5
M. Cattell, 1, 3
P. F. De Gara, 6
E. F. Dubois, 1, 3R, 5R
V. du Vigneaud, 2, 5
D. J. Edwards, 1R
N. C. Foot, 4
S. Garb, 3
H. Gold, 3
T. H. Greiner, 3
F. Gudernatsch, 1
F. R. Gurd, 2
J. C. Hinsey, 1
R. W. Houde, 3
A. Kellner, 4
J. G. Kidd, 4, 6
E. D. Kilbourne, 6
N. T. Kwit, 3
J. MacLeod, 1
D. B. Melville, 2
A. T. Milhorat, 1, 3, 5
W. Modell, 3
G. E. Murphy, 4
J. M. Neil, 6
R. F. Pitts, 1
J. R. Rachele, 2
R. W. Rawson, 1
J. Reilly, 3
G. W. Richter, 4
W. F. Riker, 3
S. H. Rinzler, 3
H. A. Scheraga, 2
J. Y. Sugg, 6
R. C. Swan, Jr., 1
J. Travell, 3
F. S. Vogel, 4
B. Webster, 5
J. T. Weld, 6

N. Y. C. DEPT. OF HEALTH

L. Buchbinder, 6
C. R. Falk, 6
A. W. Walter, 6
G. W. Wheeler, 6R

JEWISH HOSP. OF BROOKLYN

K. L. Bowman, 6
A. E. Sobel, 2
F. B. Traub, 6
M. Walzer, 6
A. S. Wiener, 6

MEMORIAL HOSP.

O. Bodansky, 2, 3
G. T. Pack, 1
O. H. Pearson, 2
C. P. Rhoads, 4
F. W. Stewart, 4

MONTEFIORE HOSP.

E. J. Baumann, 2
H. Haimovici, 1
H. R. Miller, 1
R. E. Weston, 1
H. M. Zimmerman, 4

MT. SINAI HOSP.

H. A. Abramson, 2
A. B. Gutman, 2
F. Hollander, 1, 2
H. D. Janowitz, 1
P. A. Leif, 3
M. F. Levitt, 1
M. Mendlowitz, 1
E. Perlman, 6
H. Pollack, 1, 5
S. S. Schneirson, 6
G. Shwartzman, 4, 6
H. H. Sobotka, 2, 5
I. H. Wagman, 1
A. G. White, 1

NEW YORK HOSP.

A. Goldfeder, 1
R. E. Lee, 1
S. Z. Levine, 5
M. H. Loveless, 6
C. Neumann,
P. M. Pearce, 4
J. Reznikoff, 1
E. Shorr, 1, 3
H. G. Wolff, 1, 3

NEW YORK MED. COLLEGE

R. C. Batterman, 3
R. J. Block, 2, 5
L. J. Boyd, 3
L. B. Dotti, 1
P. J. Fodor, 2
C. L. Fox, Jr., 1, 6
S. Gelfan, 1
G. B. J. Glass, 1
C. Haig, 1
I. S. Kleiner, 1, 2R, 3R, 5R
D. Lehr, 3
M. G. Mulinos, 3
C. Neuberg, 2R
B. Ratner, 4, 6

NEW YORK UNIV.

E. Adams, 2
M. Adams, 6
M. B. Bender, 1
J. G. Benton, 3
E. Y. Berger, 1
A. W. Bernheimer, 6
M. Bruger, 2, 5
J. J. Burns, 3
R. Chambers, 1R
H. A. Charipper, 1
H. Chasis, 1
L. R. Christensen, 6
A. F. Cournand, 1
B. D. Davis, 2, 6
R. C. de Bodo, 1, 3
A. C. DeGraff, 1, 3
M. E. Dunn, 1
L. W. Eichna, 1
M. Flavin, 2
M. Galdston, 1
A. L. Garbat, 6
M. Gaudino, 1
H. Gershberg, 1
A. O. Gettler, 2R
C. Gilvarg, 2
W. Goldring, 1
E. D. Goldsmith, 1
A. S. Gordon, 1
I. Graef, 4
I. Greenwald, 2R, 5R
J. W. Hall, 4
C. W. Hampel, 1
O. M. Helff, 1
S. G. Hershey, 3
L. E. Holt, Jr., 2, 5
A. S. Keston, 2
A. C. Kibrick, 2
J. S. Kupperman, 3
H. S. Lawrence, 6
M. Levy, 2
O. Loewi, 3H
W. K. Maas, 2
C. M. MacLeod, 6
N. Nelson, 2
I. Neuwirth, 2, 3
S. Ochoa, 2
A. M. Pappenheimer, Jr., 2, 6
G. W. E. Plaut, 2
E. P. Ralli, 1, 5
S. Ratner, 2
E. H. Reisner, 5
M. N. Richter, 4
M. Rockstein, 1
E. A. Rovenstine, 3
A. Sandow, 1
W. H. Sawyer, 1
M. Schubert, 3
M. Schweizer, 1
D. Sheehan, 1
M. E. Shils, 5
M. H. D. Smith, 6
H. W. Smith, 1, 2
S. E. Snyderman, 5
W. C. Spain, 6
J. M. Steele, 1
L. Thomas, 6
W. S. Tillett, 6
L. J. Unger, 6
R. Ward, 6
R. C. Warner, 2
L. G. Wesson, Jr., 1
S. L. Wilens, 4
S. B. Wortis, 1
H. L. Zauder, 3
B. W. Zweifach, 1

PUBLIC HEALTH RESEARCH INST.

F. L. Adler, 6
H. Bloch, 6
J. Freund, 6
G. K. Hirst, 6
E. Racker, 2
S. Ratner, 2

ROCKEFELLER FOUNDATION AND INST. FOR MED. RESEARCH

R. M. Archibald, 2
J. H. Bauer, 4
F. Brink, Jr., 1
D. W. Bronk, 1
J. C. Bugher, 4
H.-T. Chang, 1
M. W. Chase, 6
A. E. Cohn, 1R 3
L. C. Craig, 2
C. F. Crampton, 2
R. J. Dubos, 6
D. D. Dziewiatkowski, 2
H. S. Gasser, 1, 3
W. F. Goebel, 2, 6
S. Granick, 2
H. K. Hartline, 1
C. H. W. Hirs, 2
F. L. Horsfall, Jr., 6
R. D. Hotchkiss, 2
W. A. Jacobs, 2R, 3R
M. Kunitz, 2R
H. G. Kunkel, 2
R. C. Lancefield, 6
D. P. C. Lloyd, 1
R. Lorente de Nó, 1
M. McCarty, 6
P. D. McMaster, 4, 6
R. B. Merrifield, 2
A. E. Mirsky, 2
S. Moore, 2
R. S. Morison, 1
J. B. Nelson, 4
P. K. Olitsky, 6R
W. W. Oliver, 4
E. L. Opie, 1R, 4R, 6R
W. J. V. Osterhout, 1
J. R. Overman, 6
G. E. Perlmann, 2
T. M. Rivers, 4, 6
P. Rous, 4
H. A. Schneider, 5
I. L. Schwartz, 1
E. Shaw, 2
R. E. Shope, 4
P. Siekevitz, 2
K. C. Smithburn, 6
W. H. Stein, 2
I. Tamm, 6
W. Trager, 4
P. Weiss, 1
D. W. Woolley, 2, 5

SLOAN-KETTERING INST.

M. E. Balis, 2
R. K. Barclay, 2
A. Bendich, 2
H. L. Bradlow, 2
G. B. Brown, 2
L. F. Cavalieri, 2
G. W. Changus, 4
D. A. Clarke, 3
J. J. Fox, 2
D. K. Fukushima, 2
T. F. Gallagher, 2
L. Korngold, 6
T. H. Kritchevsky, 2
R. C. Mellors, 2, 4
M. L. Petermann, 2
F. S. Philips, 3
J. E. Rall, 1
M. M. Rapport, 2
C. C. Stock, 2
M. B. Zucker, 1

STATE UNIV. OF NEW YORK COLLEGE OF MEDICINE AT N.Y.C.

J. Belford, 3
C. M. Brooks, 1, 3
E. A. Eckert, 4
A. H. Eggerth, 4
J. Gross, 1
J. B. Hamilton, 1
B. F. Hoffman, 1
B. Kramer, 1, 2
D. M. Kydd, 5
W. Lintz, 6
T. P. Magill, 6
E. Muntwyler, 2
J. O. Pinkston, 1, 3
A. A. Siebens, 1
E. E. Suckling, 1
N. Weissman, 2

WELLCOME RESEARCH LABS.

E. J. de Beer, 3
G. B. Elion, 2
C. H. Ellis, 1
I. Goodman, 2
G. H. Hitchings, 2
R. Koster, 3
S. Norton, 3
J. C. Seed, 3

NEW YORK AREA—UNCLASSIFIED

F. M. Allen, 1R, 4
M. Anchel, 2
D. H. Andersen, 1
O. D. Anderson, 1
W. Antopol, 4
E. F. Beach, 2, 5
S. M. Beiser, 6
E. W. Blanchard, 1
H. Blumberg, 3, 5
D. A. Boroff, 6
M. R. Bovarnick, 2
T. E. Boyd, 1
W. W. Brandes, 4
R. H. Broh Kahn, 1
H. H. Bunzell, 2R
L. R. Cerecedo, 2, 5
J. G. Chusid, 1
R. A. Cooke, 6
C. Co Tui, 3
D. F. Davies, 1
C. G. de Gutierrez-Mahoney, 1, 4
H. E. Dubin, 2
L. N. Ellis, 5
E. E. Fischel, 6
E. H. Fishberg, 2
A. L. Florman, 6
C. N. Frey, 5
C. Funk, 2R
D. E. Goldman, 1
C. H. Greene, 1, 2, 4
A. C. Groschke, 5
S. W. Hanford, 1
M. Hardy, 1
J. B. Herrmann, 3
A. M. Hjort, 2
G. L. Hobby, 6
R. C. Hockett, 2
P. F. A. Hoefer, 1
M. S. Ingalls, 6
L. H. Jaffe, 4
N. Jolliffe, 1
J. A. Killian, 2
N. Kopeloff, 6
H. D. Kruse, 2, 5
L. S. Kubie, 4
H. W. Larson, 2
R. A. Lehman, 3
E. L. L'Esperance, 6
A. L. Lieberman, 1
A. E. Livingston, 1R, 3R
R. O. Loebel, 1R
L. Loewe, 3
G. H. Mangun, 2
L. C. Miller, 3
N. Molomut, 6
M. C. Morris, 6
I. M. Mountain, 6
J. E. Nadler, 3
H. C. Nicholson, 1
F. F. Nord, 2
A. B. Novikoff, 2
B. L. Oser, 5
M. I. Osterhout, 1
S. Y. P'An, 3
L. G. Parmer, 3
E. P. Pick, 3
E. Ponder, 1
E. J. Quinn, 2R, 5R
N. Rakieten, 1
L. K. Riggs, 2
I. Rothchild, 1
I. Saphra, 6
B. Schick, 6
J. Schiller, 1
W. H. Schultz, 1R 3R
D. P. Seecof, 4
S. Seifter, 2
L. W. Smith, 4
H. J. Spoor, 1
K. G. Stern, 2
H. J. Strecker, 2
C. Torda, 1, 3
G. Ungar, 1
P. Vogel, 6
B. W. Volk, 4
M. Wachstein, 4
M. Weichsel, 6
A. Weil, 4
A. J. Weil, 6
E. A. Werber, 6
M. H. Williams, Jr., 1
H. F. Wood, 6

Rensselaer

STERLING WINTHROP RESEARCH INST.

A. Arnold, 5
E. W. Dennis, 3, 6
J. O. Hoppe, 3
A. J. Karczmar, 3
A. M. Lands, 1, 3
J. R. Lewis, 3
F. P. Luduena, 3
E. W. McChesney, 1
M. L. Tainter, 1, 3
R. L. Thompson, 6

Rochester

EASTMAN KODAK CO.—DISTILLATION PRODUCTS IND.

S. R. Ames, 2
N. D. Embree, 2
D. W. Fassett, 3
P. L. Harris, 2, 5

UNIV. OF ROCHESTER

E. F. Adolph, 1
E. L. Alling, 4
W. F. Bale, 1
H. A. Blair, 1
W. R. Bloor, 1R, 2R
E. A. K. Culler, 1R
A. L. Dounce, 2
W. O. Fenn, 1
R. Gerschman, 1
R. E. Gosselin, 1
F. L. Haven, 2
W. B. Hawkins, 4
E. E. Hawley, 5
H. C. Hodge, 2, 3
J. W. Howland, 1, 4
J. P. Lambooy, 2
K. E. Mason, 5
E. A. Maynard, 3
W. S. McCann, 2, 5
L. L. Miller, 2
J. J. Morton, 4R
J. R. Murlin, 1R, 2R, 5R
E. S. Nasset, 1, 5
W. F. Neuman, 2, 3
T. R. Noonan, 1
H. E. Pearse, 4
J. E. Peskin, 1
W. T. Pommerenke, 1
H. Rahn, 1
A. Rothstein, 1, 3
K. Solomon, 2
H. W. Scherp, 6
J. U. Schlegel, 1
J. K. Scott, 4
W. K. Smith, 1
J. N. Stannard, 1, 3
E. H. Stotz, 2
C. Voegtlin, 1R, 2R, 3R
C. H. Whipple, 1, 4
R. F. Witter, 2
E. B. Wright, 1

Syracuse

NEW YORK STATE UNIV. UPSTATE MED. CTR.

P. B. Armstrong, 1
H. F. Diermeier, 3
M. S. Dooley, 3R
A. E. Farah, 3
H. A. Feldman, 6
S. S. Kalter, 6
F. P. Knowlton, 1R
V. F. Lindeman, 1
C. W. Lloyd, 1
J. M. McKibbin, 2
G. K. Moe, 1, 3
O. H. Muller, 1
E. R. Perl, 1
B. R. Rennick, 3
D. A. Richert, 2
J. S. Robb, 1, 3
W. R. Ruegamer, 2
O. W. Sartorius, 1
M. P. Schulman, 2
H. M. Tepperman, 1
J. Tepperman, 1, 3
I. C. Wells, 2
W. W. Westerfeld, 2
V. J. Wulff, 1

New York—Unclassified

J. Bordley, III, 1
H. O. Burdick, 1
L. C. Chesley, 1
R. Cole, 4R, 6R
R. E. Conklin, 1
H. L. Dickison, 3
D. B. Hand, 2
C. v. Z. Hawn, 4
E. E. Hays, 2
K. C. Hickman, 2
S. E. Hill, 1
F. Klemperer, 2
R. J. Main, 1
F. Maltaner, 6R
E. M. Medlar, 4
M. F. Paul, 2
J. M. Reiner, 1
G. C. Robinson, 1R
F. S. Robscheit-Robbins, 1, 4
W. H. Sebrell, Jr., 2, 5
C. P. Sherwin, 2R
J. E. Sweet, 1R

NORTH CAROLINA

Chapel Hill

UNIV. OF NORTH CAROLINA

C. E. Anderson, 2
J. C. Andrews, 2
K. M. Brinkhous, 4
T. C. Butler, 3
W. J. Cromartie, 4
T. Z. Csaky, 3
E. C. Curnen, 6
F. W. Ellis, 3
J. H. Ferguson, 1
J. B. Graham, 4
E. P. Hiatt, 1
J. L. Irvin, 2
E. M. Irwin, 2
H. Lowenbach, 1
H. J. Magnuson, 4
G. P. Manire, 6
W. S. McClellan, 1
A. T. Miller, Jr., 1
G. D. Penick, 4
J. H. Perlmutt, 1
H. Tauber, 2

Durham

DUKE UNIV.

R. D. Baker, 4
J. W. Beard, 4, 6
R. F. Becker, 1
F. Bernheim, 2, 3
W. E. DeTurk, 3
G. S. Eadie, 1, 3
F. L. Engel, 1
J. W. Everett, 1
K. S. Grimson, 1, 3
F. G. Hall, 1
P. Handler, 2, 5
J. P. Hendrix, 3
J. B. Hickam, 1
W. E. Hull, 1
H. Kamin, 2
W. Kempner, 1
S. Korkes, 2
H. Lowenbach, 1
J. E. Markee, 1
S. P. Martin, 6
F. D. McCrea, 1, 3
K. E. Penrod, 1
S. Rogers, 4
B. Schmidt-Nielsen, 1
K. Schmidt-Nielsen, 1
G. W. Schwert, 2
D. T. Smith, 5, 6
S. G. Smith, 5
E. A. Stead, Jr., 1
H. M. Taylor, 4
J. V. Warren, 1
K. M. Wilbur, 1

Winston-Salem

BOWMAN GRAY SCHOOL OF MEDICINE

C. Artom, 2
A. B. Denison, Jr., 1
H. D. Green, 1, 3
J. M. Little, 1, 3
M. P. Spencer, 1
M. A. Swanson, 2
W. A. Wolff, 2

North Carolina—Unclassified

M. H. Givens, 1, 2
J. E. Gregory, 6
H. Laurens, 1R
R. E. Remington, 2R, 5R
G. H Satterfield, 2, 5
S. T. Walton, 6
M. F. Williams, 1
G. H. Wise, 5

NORTH DAKOTA

W. E. Cornatzer, 2
B. De Boer, 1, 3
H. E. Ederstrom, 1
D. F. Eveleth, 2

OHIO

Cincinnati

CHRIST HOSP.

H. B. Hughes, 2
L. H. Schmidt, 2, 3
C. C. Smith, 3

CINCINNATI GENERAL HOSP.

E. A. Gall, 4
L. G. Herrmann, 4
C. A. Mills, 1, 2
I. Ruchman, 6

WM. S. MERRELL CO.

B. B. Brown, 3
P. E. Dresel, 3
F. J. Murray, 6
H. W. Werner, 3

UNIV. OF CINCINNATI

G. H. Acheson, 1, 3
M. A. Blankenhorn, 4
M. L. Cooper, 6
D. I. Crandall, 2
G. Eckstein, 1
M. H. Fischer, 1, 2R
D. G. Freiman, 4
G. M. Guest, 2
F. F. Heyroth, 2
J. B. Kahn, Jr., 3
R. A. Kehoe, 1
M. A. Logan, 2
W. D. Lotspeich, 1
M. B. Macht, 1
A. Sabin, 6
H. E. Stokinger, 3, 6
J. L. Svirbely, 3
S. Tashiro, 1R, 2R
E. F. Van Maanen, 3
C. K. Weichert, 1
C. D. West, 1

CINCINNATI—UNCLASSIFIED

L. A. Chamber, 1, 6
F. H. Mattson, 5
B. F Miller, 2
L. J. Pecora, 1
E. C. Rosenow, 4, 6R

Cleveland

CLEVELAND CLINIC FOUNDATION

A. C. Corcoran, 1, 3
L. A. Lewis, 1
G. M. C. Masson, 1
I. H. Page, 1, 2

LAKESIDE HOSP.

C. S. Beck, 4
H. Hirschmann, 2
J. T. Wearn, 1

WESTERN RESERVE UNIV.

R. M. Berne, 1
J. H. Dingle, 6
E. E. Ecker, 4, 6
R. W. Eckstein, 1
H. Gest, 2
H. S. Ginsberg, 6
G. R. Greenberg, 2
H. A. Hunscher, 5
W. S. Jordan, 6
J. Kleinerman, 4
S. Koletsky, 4
L. O. Krampitz, 2, 6
P. S. Lavik, 2
J. R. Leonards, 3
I. H. Lepow, 6
C. Leuchtenberger, 4
S. Levey, 2
W. F. H. M. Mommaerts, 1, 2
A. R. Moritz, 4
G. D. Novelli, 2
J. L. Orbison, 4
R. F. Parker, 4, 6
L. Pillemer, 2, 6
F. C. Robbins, 6
H. Rudney, 2
H. Z. Sable, 2
W. Sakami, 2
P. R. Salerno, 3
G. Sayers, 1, 3
E. E. Selkurt, 1
T. Sollman, 1R, 2R, 3R
A. B. Stavitsky, 6
J. R. Stern, 2
E. W. Sutherland, Jr., 2
M. L. Sweat, 2
M. F. Utter, 2
C. J. Wiggers, 1R, 3R
H. G. Wood, 2

CLEVELAND—UNCLASSIFIED

R. Dominguez, 1
H. Goldblatt, 1, 4
F. Haas, 2
D. B. Hackel, 1, 4
S. S. Hudack, 4
T. D. Kinney, 4
F. R. Mautz, 1
C. H. Rammelkamp, Jr., 6
R. W. Scott, 1R, 3
R. A. Shipley, 1
J. M. Werle, 1
N. C. Wetzel, 5
G. W. Wright, 1

Columbus

OHIO STATE UNIV.

C. A. Angerer, 1
E. Bozler, 1
G. A. Brecher, 1
J. B. Brown, 2, 5
K. A. Brownell, 1
G. M. Curtis, 4R
C. A. Doan, 4
M. Dodd, 6
R. C. Grubbs, 1
F. A. Hartman, 1R
F. A. Hitchcock, 1, 5
M. Koehne, 5R
C. Leake, 1, 3
M. A. Lessler, 1
W. G. Myers, 1
E. Ogden, 1
M. B. Patton, 5
L. A. Sapirstein, 1
S. Saslow, 6
H. G. Schlumberger, 4
G. Y. Shinowara, 2
R. W. Stacy, 1
T. S. Sutton, 5
E. von Haam, 4
G. C. Webster, 2
B. K. Wiseman, 4
M. L. Wolfrom, 2

Dayton

USAF, AERO MED. LAB.

J. W. Heim, 1
J. P. Henry, 1
R. F. Kline, 1
H. O. Parrack, 1
J. W. Wilson, 1

Toledo

E. L. Burns, 4
H. B. Friedgood, 1
L. A. Levison, 6
B. Steinberg, 4, 6

Ohio—Unclassified

A. W. Bosworth, 2, 5R
L. Catron, 4
L. C. Clark, Jr., 1
L. C. Ferguson, 6
A. Goudsmit, Jr., 1
D. E. Jackson, 1R, 3R
W. E. Krauss, 2, 5
J. F. Lyman, 2R, 5R
W. C. McNelly, 1
A. L. Moxon, 2
P. W. K. Rothemund, 2

OKLAHOMA

Oklahoma City

UNIV. OF OKLAHOMA

M. R. Everett, 2
A. A. Hellbaum, 1, 3
H. C. Hopps, 4, 6
A. Kurtz, 2
E C. Mason, 1
R. W. Payne, 3
F. Sheppard, 2
H. A. Shoemaker, 3
P. W. Smith, 1, 3
A. N. Taylor, 1
S. H. Wender, 2
C. S. Wright, 6

OKLAHOMA CITY—UNCLASSIFIED

R. M. Bird, 1
R. Caputto, 2
M. N. Huffman, 2
C. D. Kochakian, 1, 2
S. G Wolf, 1

Stillwater

OKLAHOMA A & M COLLEGE

W. D. Gallup, 2
V. G. Heller, 2R, 5R
R. M. Leverton, 5
R. MacVicar, 2, 5
C. K. Whitehair, 5

OREGON

Corvallis

OREGON STATE COLLEGE

J. S. Butts, 2, 5
V. H. Cheldelin, 2, 5
M. L. Fincke, 5
J. R. Haag, 2, 5
T. E. King, 2
H. M. Krueger, 1, 3
C. A. Storvick, 5
C. H. Wang, 2
R. Wulzen, 1R

Portland

UNIV. OF OREGON

C. H. Beatty, 1
W. D. Blake, 1
J. M. Brookhart, 1
N. A. David, 3
R. S. Dow, 1
H. F. Haney, 1

G. G. Heller, 1
A. B. Lerner, 2
H. S. Mason, 2
E. L. McCawley, 3
R. D. Peterson, 2
N. M. Phatak, 3
F. B. Queen, 4
F. J. Reithel, 2
W. R. Todd, 2, 5
A. R. Tunturi, 1
J. T. Van Bruggen, 2
E. S. West, 2

Oregon—Unclassified

A. M. Bahrs, 1
A. C. Kirchof, 3
I. A. Manville, 1
B. T. Scheer, 1

PENNSYLVANIA

Philadelphia Area

CHILDREN'S HOSP.

S. S. Cohen, 2
T. N. Harris, 6
F. Karush, 5
J. Smolens, 6

HAHNEMANN MED. COLLEGE

T. C. Barnes, 1, 3
A. Bondi, Jr., 6
M. J. Boyd, 2
B. A. Briody, 6
B. Calesnick, 3
J. R. DiPalma, 1
W. C. Foster, 1
J. S. Hepburn, 2R
J. F. McClendon, 1R, 2R, 5R
E. A. Reed, 1
J. C. Scott, 1
M. A. Spirtes, 3
F. J. Wiercinski, 1
M. G. Wohl, 5

JEFFERSON MED. COLLEGE

W. W. Baker, 3
H. Brieger, 3
A. Cantarow, 1, 3
H. F. Chase, 3
J. M. Coon, 3
J. O. Crider, 1R
S. A. D'Angelo, 1
R. H. De Meio, 2
M. H. F. Friedman, 1
M. I. Gluckman, 3
K. Goodner, 6
C. P. Kraatz, 3
K. S. Lee, 3
L. Levenbrook, 1
K. E. Paschkis, 1
I. J. Pincus, 1
F. Rieders, 3
J. J. Schneider, 2
F. W. Sunderman, 2
J. E. Thomas, 1, 3
L. M. Tocantins, 1

LANKENAU HOSP. RESEARCH INST.

M. A. Bennett, 2
T. F. Lavine, 2
G. Medes, 2R
S. P. Reimann, 1, 4
C. Riegel, 2
J. A. Stekol, 2, 5
G. Toennies, 2
S. Weinhouse, 2

NAVAL AIR DEVELOPMENT CTR.

J. D. Hardy, 1
R. W. Lawton, 1
A. M. Stoll, 1

SHARP AND DOHME, DIV. OF MERCK AND CO.

L. E. Arnow, 2
R. H. Barnes, 2, 5
K. H. Beyer, 1, 3
W. P. Boger, 3
D. K. Bosshardt, 5
J. Charney, 2
R. A. Harte, 5
J. W. Huff, 2
L. A. Kazal, 2
J. Munoz, 6
K. M. Stevens, 6
C. A. Stone, 3
A. A. Tytell, 2, 6
L. D. Wright, 2, 5

SMITH, KLINE & FRENCH

L. Cook, 3
E. J. Fellows, 3
S. M. Greenberg, 5
A. E. Heming, 3
D. E. Holtcamp, 3
P. A. Mattis, 3
R. A. McLean, 3

TEMPLE UNIV.

J. R. R. Bobb, 1
W. E. Chamberlain, 1
D. A. Collins, 1
S. Ellis, 3
J. D. Evans, 1
E. M. Greisheimer, 1
J. A. Harrison, 6
J. A. Kolmer, 6R
S. A. Komarov, 1
S. H. Lorber, 1
V. Menkin, 1, 4, 6
E. A. Ohler, 1
M. J. Oppenheimer, 1
H. W. Robinson, 2
J. Schultz, 2
H. Shay, 1
E. H. Spaulding, 6
E. A. Spiegel, 1
M. Spiegel-Adolf, 2
L. Tuft, 6
J. M. Waldron, 1

USDA, EASTERN UTILIZATION RESEARCH BRANCH

W. G. Gordon, 2
S. R. Hoover, 2
T. L. McMeekin, 2
L. Weil, 2
C. A. Zittle, 2

UNIV. OF PENNSYLVANIA

W. H. F. Addison, 1R
J. D. Aronson, 4, 6
G. M. Austin, 1
D. M. Aviado, Jr., 1, 3
C. Bachman, 2
F. B. Benjamin, 1
S. Y. Botelho, 1
P. E. Boyle, 4
C. Breedis, 4
J. R. Brobeck, 1
J. M. Buchanan, 2
W. W. Chambers, 1
B. Chance, 1, 2
F. C. Charalampous, 2
E. R. Clark, 1R
J. K. Clark, 1
D. R. Coman, 4
J. H. Comroe, Jr., 1, 3
H. L. Conn, Jr., 1
F. C. Dohan, 1
D. L. Drabkin, 2, 5
R. D. Dripps, 1, 3
A. B. Du Bois, 1
J. E. Eckenhoff, 1
M. R. Ehrenstein, 2
W. Ehrich, 4
J. R. Elkinton, 1
L. K. Ferguson, 4
L. B. Flexner, 1, 2
J. A. Flick, 6
E. W. Flosdorf, 6
E. L. Foltz, 1, 3
R. E. Forster II, 1
D. R. Goddard, 2
C. C. Gruhzit, 3
S. Gurin, 2
P. Gyorgy, 2, 5
J. H. Hafkenschiel, Jr., 1, 3
N. Haugaard, 2
L. V. Heilbrunn, 1
W. Henle, 6
O. Horwitz, 1
M. H. Jacobs, 1
J. H. Jones, 2, 5
R. Jones, Jr., 3
I. G. Kagan, 6
G. B. Koelle, 3
E. B. Krumbhaar, 1R, 4
C. J. Lambertsen, 1, 3
W. H. Lewis, 1R
I. Live, 6
E. Lodholz, 1R
E. R. Long, 4R
F. D. W. Lukens, 1
M. B. Lurie, 4, 6
J. B. Marsh, 2
S. M. McCann, 1
G. P. McCouch, 1
F. H. McCutcheon, 1
M. McCutcheon, 4
H. Montgomery, 1
S. Mudd, 1, 4, 6
W. M. Parkins, 1
R. Penneys, 1
L. H. Peterson, 1
H. L. Price, 3
G. W. Rake, 6
W. J. Rashkind, 1
H. L. Ratcliffe, 4
I. S. Ravdin, 1, 4
J. G. Reinhold, 2
M. Reynolds, 1
J. E. Rhoads, 1
A. N. Richards, 1R, 2R, 3R
P. Rieser, 1
C. S. Rose, 2
O. Rosenthal, 2
J. L. Roth, 1
L. J. Saul, 1
C. F. Schmidt, 1, 3
D. Scott, Jr., 1
F. B. Seibert, 2
M. G. Sevag, 2, 6
H. Shapiro, 1
W. B. Shelley, 1
H. A. Sloviter, 2
J. C. Small, 4
J. M. Sprague, 1
W. C. Stadie, 2R
I. Starr, 1, 3
W. H. Telfer, 6
P. Therman, 1
H. M. Vars, 2, 5
H. Wendel, 3
D. W. Wilson, 1, 2
I. T. Zeckwer, 1, 4
I. Zeidman, 4

WOMAN'S MED. COLLEGE

P. A. Bott, 2
N. B. Dreyer, 3
I. N. Dubin, 4
M. Fay, 2
H. R. Hafkesbring, 1
J. Hughes, 1
M. E. Maxfield, 1
R. E. Miller, 6
W. B. Stewart, 1

WYETH INST.

G. E. Farrar, Jr., 3
J. Seifter, 3
R. Tislow, 1, 3
R. M. Tomarelli, 2, 5

PHILADELPHIA AREA—UNCLASSIFIED

P. M. Aptekman, 6
C. P. Brown, 6
C. F. Gell, 1
T. S. Githens, 1R
H. T. Huang, 2
S. Kletzien, 5
D. F. Marsh, 3
G. J. Martin, 2
H. A. Reimann, 4
S. Soroff, 2
C. V. Smythe, 2
C. Weiss, 4, 6
H. C. Wood, Jr., 3R

Pittsburgh

UNIV. OF PITTSBURGH

R. Abrams, 2
A. E. Axelrod, 2, 5
L. V. Beck, 1
H. S. Belding, 1
R. Bentley, 2
F. S. Cheever, 6
G. J. Cox, 2, 5
L. H. Cretcher, 2R
L. N. Criep, 6
T. S. Danowski, 1
F. J. Dixon, Jr., 4, 6
J. D. Feldman, 4
M. A. Fischer, 2
M. Fuld, 2
W. M. Hammon, 4, 6
K. Hofmann, 2
D. Hooker, 1
T. K. Kruse, 1, 3
G. R. Lacy, 4
M. A. Lauffer, Jr., 2
J. H. Lewis, 1
P. H. Maurer, 6
R. H. McCoy, 2, 5

W. McEllroy, 2
P. L. McLain, 1, 3
I. A. Mirsky, 1
R. A. Moore, 4
T. J. Moran, 4
C. Moses, 1
J. D. Myers, 1
R. E. Olson, 2, 5
A. G. Renfrew, 2
C. H. W. Ruhe, 1
J. E. Salk, 6
C. B. Shaffer, 3
A. H. Stock, 6
R. S. Tipson, 2
K. Wertman, 6
J. S. Younger, 6

PITTSBURGH—UNCLASSIFIED

A. Edelmann, 1
E. R. Fisher, 4
F. F. Foldes, 3
R. C. Grauer, 4
P. Gross, 4
R. R. Mellon, 6
H. H. Permar, 4
F. A. Taylor, 2

University Park

PENNSYLVANIA STATE UNIV.

A. Black, 5
A. A. Benson, 2
R. V. Boucher, 5
M. L. Dodds, 5R
R. A. Dutcher, 2R, 5
E. B. Forbes, 1R, 5R
C. E. French, 5
N. B. Guerrant, 2, 5
W. J. Kuhns, 6
M. F. Mallette, 2
R. C. Miller, 5
R. W. Swift, 5
E. D. Wilson, 5

Pennsylvania—Unclassified

E. A. Bliss, 6
A. Dury, 1
M. S. McCouch, 1
J. H. Hewetson, 5
E. S. Mendelson, 1
H. M. Peck, 3
S. L. Wright, 2

PUERTO RICO

C. F. Asenjo, 2, 5
J. H. Axtmayer, 5
C. B. Casas, 1
M. Goettsch, 2, 5
R. M. Reinecke, 1
L. J. Roberts, 5
J. Szepsenwol, 1
D. B. Tyler, 1, 3

RHODE ISLAND

Providence

BROWN UNIV.

P. F. Fenton, 1, 5
C. Pfaffman, 1
L. A. Riggs, 1
F. G. Sherman, 1
C. A. Stuart, 6
J. W. Wilson, 1, 4

SOUTH CAROLINA

Charleston

MED. COLLEGE OF SOUTH CAROLINA

T. G. Bernthal, 1
A. C. Higginbotham, 1
F. W. Kinard, 1
M. H. Knisely, 1
J. A. Richardson, 3
R. P. Walton, 3

South Carolina—Unclassified

R. S. Cunningham, 1R
A. LaBelle, 1
A. E. Woodward, 1

SOUTH DAKOTA

G. B. Curran, 1
F. E. Kelsey, 3
F. K. Kelsey, 3
O. E. Olson, 2

TENNESSEE

Knoxville and Memphis

UNIV. OF TENNESSEE

R. H. Alden, 1
D. A. Brody, 1
S. R. Bruesch, 1
A. D. Dulaney, 6
C. C. Erickson, 4
W. Fleischmann, 4
W. M. Hale, 4, 6
C. R. Houck, 1
N. D. Lee, 2
F. L. MacLeod, 2, 5
R. A. Malmgren, 4
D. B. Morrison, 2
T. P. Nash, Jr., 2
R. R. Overman, 1
J. D. Perkinson, Jr., 2
J. P. Quigley, 1, 3
H. C. Schmeisser, 4
D. H. Sprunt, 4, 6
S. R. Tipton, 1
L. Van Middlesworth, 1
J. L. Wood, 2
R. A. Woodbury, 1, 3
D. B. Zilversmit, 1

MEMPHIS-UNCLASSIFIED

J. M. Young, 4
K. A. Kuiken, 2

Nashville

MEHARRY MED. COLLEGE

R. J. Cazort, 3
H. Goldie, 6
P. F. Hahn, 1, 4
D. T. Rolfe, 1
H. D. West, 2

VETERANS ADMINISTRATION HOSP.

S. H. Auerbach, 4
F. Gollan, 1
G. R. Meneely, 1, 4
N. S. Olsen, 1, 2

VANDERBILT UNIV.

A. D. Bass, 3
F. R. Blood, 1
M. T. Bush, 3
W. J. Darby, 2, 5
C. M. Greer, 3
W. C. Holland, 3
P. D. Lamson, 1, 3R
H. C. Meng, 1
A. S. Minot, 1
E. V. Newman, 1
C. R. Park, 2
R. L. Post, 1
C. C. Randall, 4
B. H. Robbins, 3
C. S. Robinson, 2R
O. Touster, 2
C. V. Woodruff, 5
J. B. Youmans, 5

Oak Ridge

UNIV. OF TENNESSEE-AEC AGRIC. RESEARCH INST.

N. G. Anderson, 1
S. F. Carson, 2
W. E. Cohn, 2
C. L. Comar, 5
D. G. Doherty, 2
S. L. Hansard, 5
J. Z. Hearon, 1
A. Hollaender, 1
G. C. Kyker, 2
H. Patrick, 5
C. W. Sheppard, 1
N.E. Tolbert, 2
J. R. Totter, 2
A. C. Upton, 4
E. Volkin, 2

Tennessee—Unclassified

O. T. Avery, 4, 6R
W. B. Dunham, 6
O. S. Gibbs, 3
J. T. Skinner, 2

TEXAS

Austin

UNIV. OF TEXAS

J. E. Davis, 1, 3
R. E. Eakin, 2
J. W. Foster, 2
L. J. Reed, 2
W. Shive, 2
E. E. Snell, 2, 5
J. B. Walker, 2
R. J. Williams, 2
O. Wyss, 2

College Station

A & M COLLEGE OF TEXAS

J. R. Couch, 2, 5
H. O. Kunkel, 2
C. M. Lyman, 2, 5
R. Reiser, 2
L. R. Richardson, 5

Dallas

SOUTHWESTERN MED. SCHOOL

H. W. Ades, 1
A. Goth, 3
A. Grollman, 1, 3
F. Harrison, 1
R. W. Lackey, 1
E. E. Muirhead, 1, 4
M. B. Slomka, 3
S. E. Sulkin, 6
H. C. Tidwell, 2, 5
J. C. Vanatta, 1

DALLAS—UNCLASSIFIED

S. Haberman, 6
M. F. Mason, 2
F. Pearcy, 1
F. T. Rogers, 1

Galveston

UNIV. OF TEXAS

C. R. Allen, 1
O. A. Bessey, 2, 5
D. B. Calvin, 1, 2
G. A. Emerson, 3
J. C. Finerty, 1
R. L. Gregory, 1
M. M. Guest, 1
C. E. Hall, 1
A. E. Hansen, 4, 5
G. R. Herrmann, 4R
R. M. Moore, 1
W. W. Nowinski, 1
A. A. Ormsby, 2
A. Packchanian, 6
M. Pollard, 4
C. M. Pomerat, 1
E. L. Porter, 1
E. J. Poth, 1
R. H. Rigdon, 4
G. R. Seaman, 1
H. G. Swann, 1
H. F. Wiese, 5

Houston

BAYLOR UNIV.

K. L. Burdon, 6
J. A. Greene, 1
B. Halpert, 4
C. A. Handley, 3
H. E. Hoff, 1
R. A. Huggins, 3
A. S. Keats, 3
P. E. Kellaway, 1
A. Kirschbaum, 6
J. H. Moyer, III, 3
R. A. Seibert, 3

UNIV. OF TEXAS

J. Awapara, 2
E. Beerstecher, Jr., 2
A. C. Griffin, 2
W. O. Russell, 4
E. L. Smith, 1

Randolph Field

U. S. SCHOOL OF AVIATION MEDICINE

R. W. Bancroft, 1
R. O. Bauer, 3
H. G. Clamann, 1
R. T. Clark, Jr., 1
H. Strughold, 1
H. M. Sweeney, 1

San Antonio

H. F. Adler, 1
H. J. Schattenberg, 4
R. D. Temoletor, 1

N. T. Werthessen, 1
H. S. Wigodsky, 1

Texas—Unclassified

H. H Beard, 2
E. A. Blair, 1
N. C. Hightower, 1
W. P. Koella, 1
N. S. R. Maluf, 1
A. E. Meyer, 1R
R. V. Talmage, 1

UTAH

Salt Lake City

UNIV. OF UTAH

M. D. Armstrong, 2
H. L. Borison, 1, 3
G. E. Cartwright, 5
H. W. Davenport, 1
V. D. Davenport, 1
S. R. Dickman, 2
R. W. Doty, 1
T. F. Dougherty, 1
C. Fenning, 1
E. G. Fingl, 3
L. P. Gebhardt, 6
L. S. Goodman, 1, 3
C. J. Gubler, 5
F. D. Gunn, 4
S. C. Harvey, 3
H. H. Hecht, 1
B. V. Jager, 6
R. S. Jones, 4
W. S. Loewe, 3
S. Marcus, 6
L. T. Samuels, 2, 3, 5
E. L. Smith, 2
E. A. Swinyard, 3
M. M. Wintrobe, 4
D. M. Woodbury, 3

Utah—Unclassified

D. A. Greenwood, 3
L. E. Harris, 5
S. P. Hayes, 6
L. W. Jarcho, 1
C. McNeil, 6
L. P. Vernon, 2

VERMONT

Burlington

UNIV. OF VERMONT

A. H. Chambers, 1
R. L. Driver, 1
E. C. Gjessing, 2
C. Hanna, 3
E. Lepeschkin, 1
H. B. Pierce, 2, 5
W. Raab, 1
W. B. Robertson, 2
F. J. M. Sichel, 1
D. J. Smith, 1, 3
W. L. Wilson, 1
E. Woll, 4

Vermont—Unclassified

S. B. Hooker, 6R

VIRGINIA

Charlottesville

UNIV. OF VIRGINIA

W. P. Anslow, Jr., 1, 2
E. D. Brand, 3
S. W. Britton, 1R
J. R. Cash, 4
A. Chanutin, 2
E. L. Corey, 1
A. E. Feller, 6
C. L. Gemmill, 1, 2, 3
D. R. H. Gourley, 1, 3
C. Hoch-Ligeti, 4
S. Ludewig, 2
Q. N. Myrvik, 6
G. C. Pitts, 1

Richmond

MED. COLLEGE OF VIRGINIA

L. D. Abbott, Jr., 2
F. L. Apperly, 4
L. E Edwards, 1
E. I. Evans, 1
J. K. Finnegan, 3
E Fischer, 1
J. C Forbes, 2
H. B. Haag, 3
H. Hoch, 2
E. C. Hoff, 1
E. G. Huf, 1
P. S. Larson, 1, 3
H. McKennis, Jr., 2
J. M. Nichols, 1
J. L. Patterson, Jr., 1
R. W. Ramsey, 1
R. B. Smith, Jr., 3
J. H. Vaughan, 6
J. H. Weatherby, 3

Virginia—Unclassified

R. W. Engel, 5
E. L. Jackson, 3

WASHINGTON

Pullman

STATE COLLEGE OF WASHINGTON

D. S. Farner, 1
J. R. Gorham, 4, 6
L. L. Madsen, 5
J. McGinnis, 5
B. C. Schneider, 5
C. M. Stevens, 2

Seattle

UNIV. OF WASHINGTON

V. E. Amassian, 1
H. S. Bennett, 1
E. A. Boyden, 1
K. Buettner, 1
L. D. Carlson, 1
W. B. Dandliker, 2
J. M. Dille, 3
C. A. Evans, 6
C. A. Finch, 1
E. H. Fischer, 2
B. W. Gabrio, 2
D. J. Hanahan, 2
H. N. Harkins, 1
F. M. Huennekens, 2
E. G. Krebs, 2
S. W. Lippincott, 4
T. A. Loomis, 3
D. F. Magee, 1
A. W. Martin, Jr., 1
L. D. Morris, 3
H. Neurath, 2, 6
H. D. Patton, 1
J. I. Rowntree, 5
T. C. Ruch, 1
R. F. Rushmer, 1
A. M. Scher, 1
A. A. Ward, Jr., 1
R. S. Weiser, 6
T. C. West, 3
R. H. Williams, 4
J. W. Woodbury, 1
A. C. Young, 1

Washington—Unclassified

A. Bodansky, 2R
E. D. Clark, 2R
D. D. Feller, 1
K. Rodahl, 1
C. P. Wangeman, 3
H. Wheelon, 1

WEST VIRGINIA

Morgantown

WEST VIRGINIA UNIV.

R. F. Krause, 2
D. W. Northup, 1
J. C. Stickney, 1
E. J. Van Liere, 1
D. T. Watts, 3

WISCONSIN

Madison

UNIV. OF WISCONSIN

L. Anderson, 2
D. M. Angevine, 4
C. A. Baumann, 2, 5
H. Beinert, 2
R. Benesch, 2
D. T. Berman, 6
H. R. Bird, 5
H. D. Bouman, 1
R. H. Burris, 2
R. T. Capps, 3
P. F. Clark, 4, 6
P. P. Cohen, 2
G. W. Crumpton, 3
H. F. Deutsch, 2
C. A. Elvehjem, 2, 5
J. A. E. Eyster, 1R, 3R
J. D. Ferry, 2
D. S. Goldman, 2
D. E. Green, 2
A. E. Harper, 5
C. Heidelberger, 2
R. C. Herrin, 1
M. R. Irwin, 6
M. J. Johnson, 2
F. L. Kozelka, 3
J. J. Lalich, 4
H. A. Lardy, 2
E. M. Larsen, 1
G. A. Le Page, 2
K. P. Link, 2
B. Mackler, 2
R. W. McGilvery, 2
W. H. McShan, 2
W. J. Meek, 1R
R. K. Meyer, 1
E. C. Miller, 2
J. A. Miller, 2
P. R. Morrison, 2
G. C. Mueller, 2
Q. R. Murphy, 1
L. Noda, 2
O. S. Orth, 1, 3
H. T. Parsons, 2R, 5R
W. H. Peterson, 2R, 5
P. H. Phillips, 2, 5
J. W. Porter, 2
V. R. Potter, 2
H. Reich, 2
M. S. Reynolds, 5
H. P. Rusch, 4
C. V. Seastone, Jr., 6
F. E. Shideman, 3
M. A. Stahmann, 2
H. Steenbock, 2R, 5
J. E. Steinhaus, 3
W. E. Stone, 1
F. M. Strong, 2
M. L. Sunde, 5
A. L. Tatum, 1, 3
L. J. Teply, 2, 5
H. A. Waisman, 2
J. N. Williams, Jr., 2
J. W. Williams, 2
P. W. Wilson, 2
H. R. Wolfe, 6
C. N. Woolsey, 1
W. B. Youmans, 1, 3

Milwaukee

MARQUETTE UNIV.

J. W. Barnard, 1
H. Beckman, 3
J. C. Bock, 2R
J. Y. Chen, 3
M. Laskowski, 2
A. J. Quick, 2, 3
P. M. Roll, 2
R. D. Taylor, 1

Wisconsin—Unclassified

E. Kun, 2, 3
H. Levine, 2, 5
S. A. Morell, 2
B. H. Schlomovitz, 1
F. Urban, 2

WYOMING

J. Blumenstock, 1

CANADA

Alberta

UNIV. OF ALBERTA

A. W. Downs, 1R
H. B. Collier, 2
L. W. McElroy, 5
H. V. Rice, 1
J. Tuba, 2

ALBERTA—UNCLASSIFIED

M. K. McPhail, 3

British Columbia

UNIV. OF BRITISH COLUMBIA

F. C. Black, 1
D. H. Copp, 1
C. E. Dolman, 6
S. M. Friedman, 1
E. S. Goranson, 1
M. A. Kennard, 1

British Columbia—Unclassified

R. A. MacLeod, 2
M. L. Menten, 1R, 4
H. L. A. Tarr, 2

Manitoba

Univ. of Manitoba

G. E. Delory, 2
J. Doupe, 1
M. Nickerson, 1, 3
F. D. White, 2

New Brunswick

E. A. G. Branch, 4
R. J. Collins, 3

Nova Scotia

W. W. Hawkins, 2
C. B. Weld, 1
E. G. Young, 2

Ontario

Defence Research Bd.

J. R. Beaton, 2
R. B. Bromiley, 1
J. S. Hart, 1
J. Hunter, 1
W. H. Johnson, 1

Dept. of Health and Welfare

J. A. Campbell, 5
J. Gibbard, 6
W. D. Graham, 3
L. Greenberg, 6
S. F. Kitchen, 6
F. C. Lu, 3
J. F. Morgan, 2
C. A. Morrell, 3
L. B. Pett, 5
L. I. Pugsley, 2

Queen's Univ.

E. M. Boyd, 3
G. H. Ettinger, 1
R. H. More, 1
R. E. Semple, 1

Univ. of Toronto

E. Baer, 2
C. H. Best, 1, 2
G. C. Butler, 2
J. Campbell, 1
W. R. Campbell, 2
T. G. H. Drake, 5
J. K. W. Ferguson, 1, 3
A. M. Fisher, 2
K. C. Fisher, 1
R. E. Haist, 1
A. W. Ham, 4
C. S. Hanes, 2
A. Hunter, 2R
W. Kalow, 3
C. C. Lucas, 2
G. H. W. Lucas, 2, 3
J. F. Manery, 1
J. Markowitz, 1
E. W. McHenry, 2, 5
B. A. McLaren, 5
F. C. Monkhouse, 1
E. C. Robertson, 5
D. A. Scott, 2
E. A. Sellers, 1
C. O. Siebenmann, 3
H. Wasteneys, 2R
A. M. Wynne, 2

Univ. of Western Ontario

R. W. Begg, 2
A. C. Burton, 1
J. B. Collip, 1, 2
C. W. Gowdey, 3
F. C. Heagy, 2
E. D. G. Murray, 6
R. L. Noble, 1
R. J. Rossiter, 2
G. W. Stavraky, 1, 3
J. A. F. Stevenson, 1
R. A. Waud, 3

Ontario—Unclassified

C. C. Benson, 2R
H. D. Branion, 5
S. Kirkwood, 2
A. B. Macallum, 2R
G. W. Manning, 1
W. D. McFarlane, 2
M. Menten, 1R, 4
F. R. Miller, 1R
V. H. K. Moorhouse, 1
M. E. M. Sawyer, 1
N. B. Taylor, 1

Quebec

Laval Univ.

G. A. Bergeron, 1
R. Bernard, 1
A. DesMarais, 1
L. P. Dugal, 1

McGill Univ.

W. Bourne, 3
J. S. L. Browne, 1
A. S. V. Burgen, 1, 3
B. D. Burns, 1
R. A. Cleghorn, 1
E. W. Crampton, 5
O. F. Denstedt, 2
S. Dworkin, 1
K. A. C. Elliott, 2
D. Fairbairn, 2
L. E. Hokin, 2
H. H. Jasper, 1
F. C. MacIntosh, 1, 3
K. I. Melville, 3
E. Page, 1
W. G. Penfield, 1
J. H. Quastel, 2
D. L. Thomson, 2
E. H. Venning, 2

Univ. of Montreal

I. T. Beck, 3
V. Fredette, 6
H. Selye, 1

Quebec—Unclassified

C. A. Forssander, 1
H. Lubinski, 6
C. F. MacPherson, 2
C. E. Rice, 6

Saskatchewan

L. B. Jaques, 1, 3

MEXICO

Mexico D. F.

E. C. Del Pozo, 1
F. Guerra, 3
J. J. Izquierdo, 1
R. Mendez, 3
J. Pisanty O., 1
A. Rosenblueth, 1
A. Zaffaroni, 2

OUTSIDE NORTH AMERICA

Argentina

V. Deulofeu, 2
B. Houssay, 1H

Australia

W. R. Adey, 1
A. Bolliger, 2
J. C. Eccles, 1H
J. F. A. Sprent, 6

Belgium

F. Bremer, 1H
C. Heymans, 3

Brazil

O. Bier, 6
J. G. Lacorte, 6
M. Rocha y Silva, 3
J. R. Valle, 3

British West Indies

I. F. S. Mackay, 1

China

H. C. Hou, 5

Colombia

K. Mezey, 3

Denmark

H. Dam, 2, 5
E. Jacobsen, 3

England

E. D. Adrian, 1H
J. H. Burn, 3
H. I. Chinn, 1, 3
H. H. Dale, 3H
O. G. Edholm, 1
M. P. Fitzgerald, 1R
A. V. Hill, 1H
A. L. Hodgkin, 1H
W. H. Perlman, 2
H. Sinclair, 5

Finland

P. K. Roine, 5

France

A. Bussard, 6
N. Choucroun, 6
A. L. Copley, 1
N. R. Joseph, 2
L. Lapicque, 1H
B. Minz, 3
J. Oudin, 6

Germany

O. H. Gauer, 1
S. Rapoport, 2
R. Thauer, 1
K. von Frisch, 1H
A. Wollenberger, 3

Greece

J. Caminopetros, 6
G. Joachimoglu, 3

Guatemala

N. S. Scrimshaw, 1, 5
R. L. Squibb, 5

Holland

B. Mendel, 2

Hong Kong

L. G. Kilborn, 1

India

H. N. Chatterjee, 6
R. N. Chopra, 3H
N. N. De, 3
E. D. Mason, 1
B. Mukherji, 3

Indonesia

A. Knudson, 2, 5

Ireland

J. W. Harman, 4

Israel

M. C. Shelesnyak, 1

Italy

M. Ajazzi-Mancini, 3

Japan

K. Kamijo, 3
Y. Kobayashi, 3

Lebanon

S. E. Kerr, 2

Norway

J. Molland, 3
P. F. Scholander, 1

Panama

T. P. Hughes, 6

Peru

C. Monge, 1H
V. Zapata-Ortiz, 3

Philippines

E. Bulatao, 1
F. O. Santos, 5

Poland

J. Kaulbersz, 1

Scotland

J. H. Gaddum, 3

Sweden

G. Liljestrand, 1H
S. Thesleff, 3
J. Warren, 6

Switzerland

W. R. Hess, 1H
H. Langemann, 3
R. Meier, 3
J. M. Posternak, 1
M. L. Quaife, 2, 5
E. Rothlin, 3
A. Stoll, 3
T. Wagner-Jauregg, 2

Turkey

W. R. Miles, 1

U.S.S.R.

L. A. Orbeli, 1H

Viet Nam

G. J. Stein, 6

THE FEDERATION REGISTER OF SCIENTIFIC PERSONNEL

THE ACT OF CONGRESS which established the National Science Foundation authorized and directed the NSF, in addition to its other functions, "to maintain a register of scientific and technical personnel and in other ways provide a central clearinghouse for information covering all scientific and technical personnel in the United States, including its territories and possessions." The register was intended primarily to serve as a mechanism for quickly identifying and locating persons with special skills, in the event that in an emergency such machinery becomes necessary to the national security. A second objective was to assemble and develop statistical information relating to the national supply, training, and utilization of scientific and technical personnel. A third purpose was to assemble comparable statistical information regarding the demand for scientific and technical personnel. The final goal was to provide an information center through which information regarding scientific manpower resources could be made available to qualified agencies or societies.

In order to conduct this register through normal scientific channels, the NSF enlisted the cooperation and services of several scientific and technical organizations which, together, cover the whole area contemplated for the National Register. These organizations are: The American Chemical Society for Chemistry; The American Institute of Physics for Physics; The Federation of American Societies for Experimental Biology and The American Institute of Biological Sciences for Biology; The American Psychological Association for Psychology; The American Mathematics Association for Mathematics; The American Meteorological Society for Meteorology; and The Public Health Service for Sanitary Engineers.

Unlike the World War II Roster and other scientific registers where qualifications were set by a small central group, this register permits each participating organization to determine the qualifications of individuals to be included. The Federation, for example, has set the requirement for inclusion at the doctoral degree level, or its equivalent in terms of ability and experience. Other organizations have lower requirements, and include individuals at the bachelor degree level. While this, perhaps, has some disadvantages, it does have the desirable feature of permitting each organization, representing an area of science or technology, to select those individuals it considers as constituting the essential personnel of its field.

The initial effort in this joint undertaking was in the distribution and collection of a questionnaire, which each member of the FASEB has received within the past two years. Information gathered has been codified and transferred to IBM cards and combined in a central file. This file currently is being used by both the NSF and participating societies. Experience with this register has been reviewed recently by the Foundation with the Societies. It had been apparent from many of the scientists completing the questionnaire, that there were certain deficiencies in this first effort. For instance, many of you had received duplicate questionnaires from several collecting organizations. Serious doubts as to the value of the whole project were expressed by some. Many individuals found it difficult or impossible to classify themselves or their work within the limitations imposed by the format of the questionnaire.

Obviously, the type of information being sought in this program is of value only to the extent that it reflects the current scientific manpower situation. For this reason and in order to correct some of the past deficiencies, the questionnaire has been revised in order to make it possible to identify an individual scientist's specialty in a more definitive manner. We expect to avoid the nuisance of duplication by checking through a central office. This revised questionnaire will be mailed in 1956 and at two-year intervals thereafter. It is urgently requested that every member complete and return the questionnaire promptly. We shall be most appreciative of your help and cooperation—also your comments in regard to the adequacy of the new form.

FEDERATION NOTICE

To facilitate the publication of an accurate and up-to-date Membership List in the December issue of FEDERATION PROCEEDINGS, it is requested that *any member whose entry in the December 1955 issue is incorrect* furnish the Secretary of his society with the following data, in duplicate, on 3″ x 5″ cards: Name; Degree (highest); Mailing Address (street address, city, zone, state); Present Position (title and department or branch); Society membership and year of election to membership in that society. If you are retired, give only degree(s), home address, and society membership(s) with year(s). If you are officially carried on the rolls of your society as a retired or honorary member, please so indicate.

Names and addresses of the Society Secretaries are as follows:

The American Physiological Society—Dr. M. O. LEE, *Executive Secretary*, 9650 Wisconsin Ave., Washington 14, D. C.

American Society of Biological Chemists—Dr. PHILIP HANDLER, Duke University School of Medicine, Durham, N. C.

American Society for Pharmacology and Experimental Therapeutics—Dr. CARL C. PFEIFFER, Emory University School of Medicine, Emory University, Ga.

The American Society for Experimental Pathology—Dr. C. C. ERICKSON, Institute of Pathology, University of Tennessee, Memphis 3, Tenn.

American Institute of Nutrition—Dr. R. W. ENGEL, Virginia Polytechnic Institute, Blacksburg, Va.

The American Association of Immunologists—Dr. F. S. CHEEVER, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pa.

At any future time when you wish a correction made, please notify your Society Secretary by supplying all required information as above. Your Secretary, in turn, will forward the information to the Federation Secretary.

INDEX TO VOLUME 14

Abstracts of papers, 39th Annual Meeting
  Biochemistry, 170, 487
  corrections, 671
  Immunology, 456
  Nutrition, 426
  Pathology, 397
  Pharmacology, 313, 488
  Physiology, 1, 483
Aldosterone, 746
ALEXANDER, G. J., 752
ALMQUIST, H. J. Evaluation of fat-soluble vitamins, 650
Amino acid
  biosynthesis, 691
  and carbohydrate metabolism, 707
  metabolism, 683, 691, 696, 707
    hormonal control, 696
Annual meeting
  Atlantic City (1956), 793
  San Francisco (1955), 489, 617
Atlantic City meeting, 1956, 793
Atherosclerosis, 728

BANG, F. B. Pathology of the cell infected with viruses, 619
BERMES, E. W., JR., 733
Bile acids, 767
Biochemistry of disease, 717
Biological Chemists, Society of
  abstracts, 1955 meeting, 170, 487
  constitution and bylaws, 806
  officers, 805
  program, 1955 meeting, 525
  symposium on amino acid metabolism, 525, 683
  symposium on biochemistry of disease, 531, 717
  symposium on cholesterol metabolism, 537, 752
Biosynthesis
  branched chain acids, 757
  cholesterol, 760
  fatty acid precursors, 752
  squalene, 760
BONNER, J. Synthesis of branched chain compounds, 765
Branched chain compounds, 757, 760, 762, 765
BURKE, W. T., 707

Carbohydrate metabolism, 707
Cells
  chemistry, 633
  pathology, 619
  structure and function, 619, 633, 673
  virus infection, 619
CHAIKOFF, I. L., 767
Cholesterol
  catabolism, 783
  metabolism, 752, 757, 760, 762, 765, 767, 775, 783
COBEY, F., 760
COHEN, P. P. 689
COON, M. J. Enzymatic synthesis of branched chain acids from amino acids, 762
Corrections to March issue, 671
CURTIS, R. H., 746

DAVIS, B. D. Some aspects of amino acid biosynthesis in microorganisms, 691
Deceased members, 933
DEUEL, H. J., JR. Fat as a required nutrient of the diet, 639
Diet
  hypolipotropic, 655
  fat requirements, 639
DITURI, F., 760

Exhibits
  industrial, 589
  member and institutional, 594

FARKAS, T. G., 757
Fasting, survival time, 639
Fat
  requirements, 639
  vitamins, fat soluble, 650
Federation
  Board, 1955, 795
  Boards and Executive Committees, former, 795
  constitution and bylaws, 799
  deceased members, 933
  Joint Session, 1955 meeting, 492, 619, 633, 673
  meetings
    Atlantic City (1956), 793
    San Francisco (1955), 489, 617
  membership list
    alphabetical, 824
    geographical, 934
  new members, 786
  Placement Service, 801
FISH, C. A., 752

GURIN, S., 760, 783

HAFT, D. E., 707
HARTROFT, W. S. Effects of various types of lipids in experimental hypolipotropic diets, 655
HECHTER, O., 775
HOGEBOOM, G. H. AND E. L. KUFF. Relation between cell structure and cell chemistry, 633
Homogenates, adrenal, 775
Hormones and lipids, 661

Immunologists, Association of
  abstracts, 1955 meeting, 456
  constitution and bylaws, 820
  officers, 820

program, 1955 meeting, 581
INGLE, D. J., 705
Inter-Society Sessions, 493
Ionography, 733

Joint Session (1955), 492, 619, 633, 673

KEATING, F. R., JR., 723
KINSELL, L. W. AND G. D. MICHAELS. Hormonal-nutritional-lipid relationships, 661
KUFF, E. L., 633

Lipids
and experimental diets, 655
and hormones, 661
in nutrition, 639, 650, 655, 661
metabolism, 661
LUETSCHER, J. A., JR. AND R. H. CURTIS. Observations on aldosterone in human urine, 746
LYNN, W. S., JR., E. STAPLE AND S. GURIN. Catabolism of cholesterol, 783

McCONAHEY, W. M., 723
McDONALD, H. J., E. W. BERMES, JR. AND R. H. SPITZER. Clinical chemical significance of ionography, 733
MEISTER, A. Transamination in amino acid metabolism, 683
Membership, Federation
alphabetical, 824
geographical, 934
necrology, 933
summary, 932
Metabolism
amino acid, 683, 691, 696, 707
carbohydrate, 707
cholesterol, 752, 757, 760, 762, 765, 767, 775, 783
lipid, 661
nitrogen, 639
MICHAELS, G. D., 661
MILLER, L. L., W. T. BURKE AND D. E. HAFT. Nitrogen sparing action of carbohydrate with isolated perfused rat liver, 707
Motion pictures, 492

Nitrogen sparing action of carbohydrate, 707
Nutrition, Institute of
abstracts, 1955 meeting, 426
constitution and bylaws, 817
officers, 817
program, 1955 meeting, 573
symposium on lipids in nutrition, 575, 639

ORVIS, A. L., 723
OWEN, C. A., JR., W. M. McCONAHEY, F. R. KEATING, JR. AND A. L. ORVIS. Investigation of diseases of the thyroid gland by means of radioactive iodine, 723

Panel discussions
aims and methods of laboratory instruction in physiology, 515
increase in research potential in pathology, 568
teaching and training (report of second A.A.M.C. Teaching Institute), 570
Pathology, Society for Experimental
abstracts, 1955 meeting, 397
constitution and bylaws, 814
officers, 814
program, 1955 meeting, 567
Pharmacology and Experimental Therapeutics, Society for
abstracts, 1955 meeting, 313, 488
constitution and bylaws, 810
officers, 810
program, 1955 meeting, 551
Physiological Society, American
abstracts, 1955 meeting, 1, 483
constitution and bylaws, 803
officers, 802
program, 1955 meeting, 497
PILGERAM, L. O. Biochemical studies in relation to comparative susceptibility to experimental atherosclerosis, 728
Placement Service, Federation, 801
Porphyria, 717
PORTER, K. R. Fine structure of cells, 673

RABINOWITZ, J. L., F. DITURI, F. COBEY AND S. GURIN. Branched chain acids in the biosynthesis of squalene and cholesterol, 760
Radiation injury, 639
Radioactive compounds, 691, 707, 723
RUDNEY, H. AND T. G. FARKAS. Biosynthesis of branched chain acids, 757
RUSSELL, JANE A. Hormonal control of amino acid metabolism, 696

SABA, N. AND O. HECHTER. Cholesterol-4-C^{14} metabolism in adrenal homogenates, 775
San Francisco meeting (1955), 489, 617
SCHWARTZ, S. Porphyrins and porphyrin precursors in human and experimental porphyria, 717
SCHWENK, E., G. J. ALEXANDER, C. A. FISH AND T. H. STOUDT. Biosynthesis of substances which accompany cholesterol, 752
Scientific personnel, register of, 951
SIPERSTEIN, M. D. AND I. L. CHAIKOFF. Conversion of cholesterol to bile acids, 767
SPITZER, R. H., 733
STAPLE, E., 783
STOUDT, T. H., 752
Symposia and special sessions, 1955 meeting
amino acid metabolism, 525, 683
biochemistry of disease, 531, 717
cholesterol metabolism, 537, 752
lipids in nutrition, 575, 639
integration of cell structure and function, 492, 619

Thyroidal diseases, 723
Transaminases, 683

AUTHOR INDEX

Roman figures refer to serial number of abstract, FEDERATION PROCEEDINGS, Part I; **bold figures** refer to serial number of paper in program, FEDERATION PROCEEDINGS, Part II. **S** refers to symposia and special sessions; **P** refers to panels; **JS** refers to Joint Session and **MP**, to Motion Pictures, page 492.

Abajian, J., Jr., 1010, **1177**
Abbott, L. D., Jr., 624, **785**
Abbott, R. R., 1291, **1389**
Abbott, W. E., 789, **1007**
Abeles, R. H., 546, **731**
Abood, L. G., 1, **444**
Abraham, S., 2, **1024**
Achaya, K. T., 547, **885**
Acheson, G. H., 438, **357**; 1149, **1232**
Achinstein, B., 1229, **1236**
Achor, L. B., 1011, **1298**
Ackermann, W. W., 1475, **1547**
Adam, D. J. D., 1409, **1437**
Adams, E., 548, **1036**
Adams, J. M., 1312, **1356**; 1354, **1357**
Adams, M. H., 9, **507**
Adams, R. B., 124, **94**
Adams, W. E., 367, **321**
Adamson, D. M., 121, **529**
Adelberg, E., **607S**
Adelman, W. J., Jr., 3, **353**
Adolph, E. F., 4, **207**
Ahlquist, R. P., 1222, **1292**; 1262, **1290**
Ahrne, I., 196, **173**
Aisenberg, A. C., 549, **1037**
Akert, K., 538, **182**
Akeson, W. H., 550, **494**
Albanese, A. A., 551, **1038**
Albaum, H. G., 552, **77**
Alberty, R. A., 553, **610**
Aldrich, R. A., 779, **914**; 1263, **1149**
Alella, A., 5, **506**
Alexander, B., 707, **25**
Alexander, B. F., 1012, **1151**
Alexander, H., 1553, **1559**
Alexander, R. S., 6, **260**; 390, **461**
Alexander, W. F., 842, **1345**
Alfin-Slater, R. B., 547, **885**; 1387, **61**
Alivisatos, S. G. A., 554, **854**
Alkjaersig, N., 901, **31**
Allbaugh, E., 1574, **603**
Allen, F. W., 645, **802**
Allen, T. H., 7, **360**
Allison, J. B., 1374, **1493**
Allmark, M. G., 1013, **1138**; 1176, **1179**
Almeida, A. B., 450, **71**
Almquist, H. J., **1461S**
Alper, C., 1375, **1424**
Alpert, S., 455, **380**
Altamirano, M., 8, **484**
Altszuler, N., 9, **507**; 10, **215**; 925, **114**
Alvarez, O. G., 1378, **1429**
Alvord, E. C., Jr., 301, **240**
Amassian, V. E., 11, **508**; 496, **180**; 507, **134**
Ambrose, A. M., 1014, **1299**; 1015, **1137**; 1236, **1112**
Ambrose, J. A., 765, **902**
Ambrus, C. M., 1016, **1267**
Ambrus, J. L., 1016, **1267**
Ames, S. R., 555, **775**
Anason, A., 66, **515**
Anchel, M., 556, **770**
Andersch, M. A., 557, **1039**
Anderson, H. H., 1154, **1105**; 1175, **1104**
Anderson, J. T., 75, **472**; 195, **232**; 1376, **8**
Anderson, L., 558, **883**
Anderson, M. L., 12, **501**
Anderson, N. G., 12, **501**
Anderson, R. C., 1053, **1113**; 1251, **1244**
Anderson, R. S., 13, **351**
Andres, R., 14, **488**
Andresen, R. H., 1282, **1405**
Andrews, G. A., 172, **429**
Andrews, J. C., 1000, **1084**
Anfinsen, C. B., 868, **827**
Angerer, C. A., 303, **551**
Angevine, D. M., 1286, **1347**; **1395P**
Angus, R., 1465, **1430**
Anker, H. S., 849, **958**
Antopol, W., 544, **601**; 1283, **1415**
Appelboom, J. W., 15, **282**
Appert, H., 161, **345**
Aprison, M. H., 346, **496**
Apt, L., 1344, **1009**
Apter, N. S., 1221, **1086**
Arendt, K. A., 167, **MP, p. 492**
Arasimavicius, A., 1291, **1389**
Archer, J. D., 1017, **1297**; 1088, **1314**
Argus, M. F., 866, **1145**; 1284, **289**
Arias-Stella, J., 821, **1055**
Armocida, E., 880, **687**
Armstrong, M. D., 559, **998**
Armstrong, W. D., 612, **408**
Arnold, J. S., 1285, **1352**
Arnovitz, M. S., 1095, **1274**
Arnrich, L., 1377, **1454**
Aronoff, S., 560, **918**
Aronow, L., 1018, **1185**
Aroskar, J. P., 652, **803**
Arredondo, E., 885, **1260**
Arroyave, G., 1454, **1426**; 1460, **1499**
Arthur, W., 675, **767**
Artom, C., 561, **777**
Asenjo, C. F., 1378, **1429**
Ashley, B. D., 562, **1040**
Assali, N. S., 16, **269**
Aull, J. C., 276, **474**
Austin, G., 17, **448**
Auyong, T. K. H., 1232, **1160**
Awapara, J., 563, **1005**
Axelrod, A. E., 1379, **1466**

Bacchus, H., 18, **509**
Bachhawat, B. K., 874, **949**
Bachhuber, T. E., 564, **671**; 1286, **1347**
Bachrach, W. A., 426, **288**
Bachtold, J. G., 1476, **1565**
Back, N., 1016, **1267**
Baer, B., 1540, **1605**
Baer, H., 1477, **1599**
Baer, J. E., 41, **152**
Baez, S., 19, **510**
Baggett, B., 565, **679**
Bain, J. A., 1019, **1204**
Baird, C. D. C., 1380, **1455**
Baird, I. L., 306, **325**
Baker, C., 486, **592**
Baker, D. H., 1265, **1092**
Baker, E. M., 494, **228**
Baker, G. D., 580, **1034**
Baker, H. S., 797, **627**
Baker, J. M., 1020, **1272**
Baker, N., 20, **273**
Baker, W. W., 1020, **1272**
Baldridge, H. D., 163, **500**
Baldridge, R. C., 566, **1003**
Bale, W. F., 192, **391**; 462, **54**
Balea, T., 1567, **604**
Balis, M. E., 667, **852**
Ball, E., 631, **1047**
Ball, E. G., 623, **1045**
Ballou, C. E., 567, **1017**
Balls, A. K., 949, **1081**
Balourdas, T. A., 21, **358**
Bancroft, R. W., 22, **284**
Bandurski, R. S., 568, **613**
Bang, F. B., 1287, **1355**; 1483, **1573**
Bang, G. B., **JS, p. 492**
Barber, C. W., 1413, **1452**
Barbusca, Frances, 557, **1039**
Barclay, R. K., 569, **783**
Barker, E. S., 23, **154**
Barker, H. A., 966, **907**
Barker, P. A., 1328, **1362**
Barker, S. B., 24, **455**
Barlow, G., 25, **359**
Barner, H. D., 570, **743**
Barnes, T. C., 1021, **1300**
Barnett, R. C., 26, **477**
Barraclough, C. A., 27, **160**
Barron, E. S. G., 962, **868**
Barrow, E. M., 1306, **41**
Bartlett, P. D., 571, **942**
Bartlett, R. G., Jr., 28, **223**
Bartz, K. W., 719, **1018**
Basford, R. E., 572, **695**
Basinski, D. H., 573, **750**
Bassham, J. A., 574, **765**; 607, **762**
Bassingthwaighte, J. B., 1216, **1200**
Batterman, R. C., 1022, **1256**; 1109, **1257**; 1113, **1258**; 1122, **1193**; 1255, **1259**
Battisto, J. R., 1478, **1592**

Bauer, R. O., 1023. **1216**; 1024, **1301**; 1185, **1333**
Baugh, C. W., 1041, **224**
Baughan, M. A., 1409, **1437**; 1469, **1438**
Baum, H., 806, **646**
Baumann, C. A., 981, **721**; 1417, **1490**; 1444, **1491**
Baumann, D. P., 1025, **1157**
Baur, F. J., 1431, **1439**
Bauriedel, W. R., 575, **814**
Bautista, G., 1318, **1358**; 1512, **1563**
Baxter, J. H., 1114, **1319**
Baxter, R. C., 467, **63**
Bay, E., 1064, **1227**
Bay, E. C., 1241, **1339**
Beach, E. F., 576, **1041**
Beamer, W. D., 161, **345**
Bean, J. W., 261, **554**; 454, **211**
Bean, R. C., 577, **845**
Beatty, C. H., 29, **274**; 850, **1032**
Beck, L., 1026, **1254**
Beck, L. V., 30, **511**
Beck, L. W., 1431, **1439**
Becker, C. E., 578, **910**
Becker, E. R., 1479, **1543**
Becker, R. A., 427, **382**
Beckett, S. B., 1086, **1174**
Beecher, H. K., 1027, **1254**
Beers, L., 571, **942**
Beerstecher, E., Jr., 965, **670**
Begg, R. W., 579, **939**
Behar, M., 1454, **1426**
Beher, W. T., 580, **1034**
Behnke, A. R., 31, **473**
Behrmann, V. G., 32, **370**
Beiler, J. M., 581, **1399**
Beinert, H., 641, **647**
Belding, H. S., 33, **512**
Bell, E. J., 1545, **1608**
Bell, W. B., 1410, **1445**
Bella, S. T., 941, **1001**
Belleville, R. E., 1145, **1123**
Bellinger, S. B., 888, **1010**
Beltz, R. E., 582, **667**
Ben, M., 361, **567**
Benda, C. E., 1383, **1434**; 1384, **1508**
Bender, M. B., 284, **246**
Bendich, A., 690, **738**
Benesch, R., 1581, **805**
Benesch, R. E., 1581, **805**
Benjamin, J. A., 39, **498**
Benjamin, R. M., 538, **182**
Bennett, A. L., 514, **384**
Bennett, E. L., 583, **735**
Bennett, G. A., **1395P**
Bennett, L. R., 1326A, **1384A**
Benson, A. A., 607, **762**
Berg, G., 1514, **1550**
Berge, T. O., 1480, **1553**
Bergel, M., 1430, **1516**
Bergen, J. R., 34, **168**
Berger, F. M., 1028, **1121**; 1135, **1122**
Berger, S., 412, **1229**
Beringer, E. D., 635, **961**
Berliner, D. L., 263, **329**; 584, **675**
Berman, H. J., 35, **513**; 167, **MP p. 492**
Berne, R. M., 36, **463**
Bernfeld, P., 585, **813**
Bernhard, S. A., 37, **499**
Bernick, S., 251, **396**
Bernsohn, J., 586, **1296**
Bernstein, H., 383, **467**
Bernstein, I. A., 587, **869**
Berry, J. F., 588, **1042**
Bert, M. H., 1457, **1425**
Besic, F. C., 632, **1394**
Best, C. H., 530, **597**
Best, J. B., 38, **505**
Betheil, J. J., 39, **498**
Bethell, F. H., 1362, **933**
Beutner, R. H., 40, **355**
Bevans, M., 1288, **1404**
Beyer, H., 903, **919**
Beyer, K. H., 41, **152**
Bhargava, K. P., 1029, **1164**
Bickford, R. G., 42, **188**
Bieri, J. G., 1381, **1503**
Bierman, H. R., 1030, **1097**; 1058, **1251**
Billings, M., 1326A, **1384A**
Bingham, G. A., 1293, **1390**
Binkley, F., 589, **804**
Bird, G. S., 1041, **224**
Bird, H. H., 1486, **1607**
Bird, H. R., 1444, **1491**
Birzis, L. 1572, **175**
Bischoff, F., 590 **1043**
Bishop, R. C., 1362, **933**
Bisteni, A., 223, **84**
Bittner, J. J., 217, **247**
Blachly, P. H., 43, **179**
Black, A. L., 591, **1025**
Black, E. C., 44, **238**
Blackmon, J. R., 36, **463**
Blackmore, W. P., 1031, **1284**
Blair, H. A., 467, **63**
Blide, L. W., 616, **1035**
Bloch, K., 625, **714**; **817S**
Block, W. D., 587, **869**
Bloor, W. R., 723, **793**
Blum, L., 1560, **1539**
Blumberg, H., 1032, **1302**
Blumenstein, J., 530, **597**
Blumenthal, H. J., 740, **1056**
Blumenthal, H. T., 1315, **1349**
Bly, C. G., 1289, **1411**
Boatman, J. B., 45, **367**
Bocek, R. M., 850, **1032**
Bocklage, B. C., 877, **621**
Bogart, R., 287, **105**
Bogdanove, E. M., 142, **533**
Boggiano, E., 915, **728**
Bogner, R. L., 1033, **1106**
Bogorad, L., 592, **917**
Bohner, B., 1052, **1125**
Bohr, D. F., 404, **189**
Bolene-Williams, C., 5, **506**
Bollman, J. L., 317, **454**; 1290, **1378**; 1332, **1154**
Bond, H. E., 1034, **1103**
Bond, V. P., 46, **59**
Bonner, D., 477, **678**
Bonner, J., **822S**
Bonting, S. L., 1035, **1210**; 1092, **1207**
Booher, W. T., 1158, **1328**
Booker, W. M., 47, **218**
Boor, A. K., 593, **842**
Booth, A. N., 1036, **1111**; 1073, **1110**
Borchers, R., 1382, **1481**
Borek, E., 594, **52**
Borghgraef, R., 375, **151**
Boring, W. D., 1543, **1561**
Borison, H. L., 1029, **1164**; 1186, **1252**
Borland, J. K., 1177, **1234**
Borman, A., 911, **1152**
Boroff, D. A., 1481, **1582**
Borrelli, J., 543, **32**
Botelho, S. Y., 48, **405**
Bott, P. A., 595, **1044**
Boucek, R. J., 843, **752**
Boxer, G. E., 596, **669**
Boyd, E. M., 1037, **1303**
Boyd, L. J., 183, **1474**
Boyd, M. J., 972, **1015**
Boyer, P. D., 597, **759**
Bozorgmehri, P., 1104, **1181**
Bradford, W. L., Jr., 1339, **15**; 1369, **6**
Bradley, B., 243, **363**; 524, **365**
Bradley, L. B., 761, **1058**
Bradlow, H. L., 598, **672**
Bradshaw, P. J., 576, **1041**
Brady, R. O., 599, **861**
Braham, J. E., 1460, **1499**
Brand, E. D., 1038, **1248**; 1203, **1253**
Brand, E. H., 11, **508**
Brandfonbrener, M., 49, **146**
Brandt, J. L., 50, **148**
Brannick, L. J., 486, **592**
Bransford, A., 1211, **1139**
Brauer, R. W., 1039, **341**; 1063, **342**; 1070, **26**; 1140, **366**; 1148, **340**; 1166, **68**; 1173, **339**
Braun, D. L., 1040, **1124**
Braunwald, E., 51, **307**
Brayer, F. T., 185, **69**
Brazda, F. G., 650, **940**
Brazell, E., 1010, **1177**
Brecher, G. A., 52, **306**
Briggs, G. M., 1400, **1447**
Brin, M., 600, **1016**
Brinkhous, K. M., 1343, **24**
Briscoe, S., 53, **497**
Brisk, T., 1054, **1140**; 1055, **1306**
Britton, S. W., 54, **514**
Brock, A. J., 248, **120**
Brockman, R. W., 601, **784**
Brodie, B. B., 1042, **1109**; 1182, **1243**
Brodish, A., 55, **110**
Brodsky, W. A., 15, **282**; 56, **149**; 387, **347**
Brody, A. W., 57, **263**
Brody, D. A., 58, **385**
Brody, S., 59, **170**
Bronner, F., 1383, **1434**; 1384, **1508**
Brookhart, J. M., 60, **126**
Brooks, C. McC., 61, **401**
Brooks, H. C., 248, **120**
Brooks, P. M., 62, **58**; 180, **255**
Brostoff, P., 399, **573**; 465, **96**
Brouha, L., 63, **407**
Brown, A., 1291, **1389**
Brown, B. B., 1040, **1124**
Brown, E., 243, **363**
Brown, E. B., 76, **308**
Brown, E. B., Jr., 64, **430**
Brown, E. M., 893, **973**
Brown, E. S., 1505, **1574**
Brown, G. B., 709, **980**
Brown, G. C., 1482, **1567**
Brown, G. M., 1041, **224**
Brown, G. W., 65, **MP p. 492**
Brown, J. H. U., 66, **515**
Brown, J. R., 863, **891**
Brown, M. L., 65, **MP, p. 492**
Brown, R. A., 1486, **1607**
Brownlee, G. V., 225, **314**
Brożek, J., 67, **471**; 75, **472**
Bruce, M., 408, **433**
Brues, A. M., 480, **67**
Bryant, S. H., 68, **516**
Bubel, H. C., 1476, **1565**
Buchanan, G. D., 490, **336**
Buchanan, J. M., 787, **975**
Bucher, N. L. R., 602, **712**

Buckley, N. M., 69, **517**; 351, **141**
Bueker, E. D., 70, **518**
Burch, N. R., 71, **303**; 1118, **1128**
Burchell, H. B., 95, **309**
Burchenal, J. H., 1416, **1468**; **1289S**
Burg, S. P., 971, **636**
Burgess, L. E., 72, **504**; 403, **574**
Burgner, P. W., 1069, **1250**
Burk, D., 603, **768**; 736, **863**
Burke, W. T., 604, **966**
Burks, R., 424, **164**
Burlington, H., 73, **343**
Burns, J. J., 727, **640**; 1042, **1109**; 1182, **1243**; 1201, **1023**
Burnstein, T., 1483, **1573**
Burr, W. W., Jr., 945, **774**
Burton, A. C., 74, **171**; **420P**
Burton, A. F., 579, **939**
Burton, R. M., 605, **857**
Bush, I. E., 814, **620**
Bush, J. A., 1408, **1428**
Buskirk, E., 75, **472**
Butler, T. C., 1043, **1240**
Byatt, Pamela J., 1543, **1561**
Byerrum, R. U., 606, **723**
Byers, S. O., 474, **394**
Byham, B. B., 1342, **1379**

Cabrera, A., 1284, **289**
Cader, G., 14, **488**
Caedo, M., 1474, **1526**
Cafruny, E. J., 1044, **1304**
Cairns, A., 96, **14**
Callison, E. C., 1385, **1483**
Calloway, D. H., 1246, **1158**; 1386, **1448**
Calvin, M., 607, **762**
Campbell, B., 482, **591**
Campbell, D. H., 304, **562**; 1501, **1584**; 1557, **1576**
Campbell, G. S., 76, **308**
Campbell, J. A., 1443, **1506**
Campomanes, C. I., 1182, **1243**
Canellakis, E. S., 1045, **977**
Cann, J. R., 1526, **1595**
Cantarow, A., 77, **108**; 363, **213**
Canzanelli, A., 386, **570**
Caputto, R., 608, **1033**
Carbonera, P., 1292, **1402**
Carden, N. L., 1046, **1236**
Carey, C. R., 78, **445**
Carhart, E., 1044, **1304**
Carlsen, E., 79, **519**
Carlson, L. D., 80, **227**
Carney, E. K., 643, **799**
Carpenter, M. P., 608, **1033**
Carr, C. W., 609, **897**
Carroll, H. W., 610, **963**; 1063, **342**
Carroll, M. N., Jr., 1047, **1255**
Carson, D. R., 1095, **1274**
Carter, C. E., 611, **974**
Carter, E. T., 81, **372**
Carter, L. P., 1393, **1509**
Carter, M. K., 1048, **1209**
Carter, R. E., 46, **59**
Carter, R. L., 1049, **1305**
Carter, Y., 1317, **1400**
Cartwright, G. E., 1408, **1428**
Carver, R. K., 213, **140**
Casarett, L., 1200, **1150**
Casas, I., 127, **335**
Case, R. B., 421, **411**
Caster, W. O., 612, **408**
Castle, C., 845, **951**
Castleman, L., 50, **148**
Catchpole, H. R., 338, **330**
Catenacci, A. J., 1077, **1311**
Catravas, G. N., 613, **780**
Cavalieri, R., 766, **72**
Cazort, R. J., 1050, **1413**; 1272, **1341**
Ceithaml, J., 984, **653**
Celander, D. R., 82, **22**
Cercero, E., 1555, **838**
Cerecedo, L. R., 737, **1054**
Cervoni, P., 1051, **1180**
Chaikoff, I. L., 2, **1024**; 234, **11**; **823S**
Chamberlain, R., 17, **448**
Chamberlain, W. E., 468, **586**
Chance, B., 614, **755**
Chang, C. C., 1559, **1566**
Chang, C. H., 168, **57**
Chang, I., 396, **92**
Chang, M. C., 83, **220**
Chanin, M., 873, **1004**
Chapin, J. L., 84, **373**
Chargaff, E., 615, **740**
Chari-Briton, A., 786, **778**; 1423, **1515**
Chase, A. M., 85, **520**
Chase, H. F., 1038, **1248**
Chase, M. W., 1478, **1592**; 1484, **1593**
Chaykin, S., 322, **856**
Cheever, E., 788, **959**
Cheever, F. S., 1485, **55**
Cheldelin, V. H., 764, **904**; 765, **902**; 1436, **1451**
Chen, G., 1052, **1125**
Chen, K. K., 1053, **1113**
Chen, S.-D., 1457, **1425**
Cheng, A. L. S., 1387, **61**
Cheng, H. F., 1505, **1574**
Cheong, L., 903, **919**
Cheosakul, P., 616, **1035**
Cherniack, R. M., 86, **264**
Chernick, S. S., 617, **943**
Chessin, M., 1233, **1159**
Cheung, M. W., 618, **999**; 1459, **1488**
Chilcote, M. E., 619, **913**
Child, G. P., 1054, **1140**; 1055, **1306**; 1112, **1192**
Chin, P. H., 1549, **53**
Chinard, F. P., 671, **147**
Cho, M. H., 1056, **34**
Chow, B. F., 1388, **1473**
Christensen, H. N., 620, **662**
Christensen, M. K., 1208, **1172**
Chryssostomidou, O., 1567, **604**
Chung, C. W., 621, **1045**
Chung, J. W., 842, **1345**
Chusid, J. G., 87, **521**
Cifonelli, J. A., 622, **849**
Ciotti, M. M., 605, **857**
Clamann, H. G., 88, **495**
Clancy, C., 1054, **1140**
Clark, B. B., 1057, **1237**
Clark, J. K., 23, **154**
Clark, R., 20, **273**
Clark, R. T., Jr., 89, **226**
Clark, W. G., 377, **664**
Clarke, E. C., 623, **1046**
Clarke, M. E., 1554, **1589**
Clasen, R. A., 1293, **1390**
Clausen, J., 290, **187**
Clayton, C. C., 624, **785**
Clayton, R. B., 625, **714**
Cobey, F., 656, **713**
Coblentz, A., 1058, **1251**
Coburn, A. F., 1551, **1527**
Cochran, K. W., 1059, **1100**
Cochrane, L. S. G., 586, **1296**
Cockburn, R. M., 956, **779**
Code, C. F., 389, **291**
Cohen, A. I., 319, **122**
Cohen, I. M., 1017, **1297**
Cohen, L, A., 90, **293**
Cohen, L. H., 611, **974**
Cohen, P. P., **605S**
Cohen, S., 626, **693**
Cohen, S. S., 570, **743**
Cohn, D. V., 1060, **1307**
Cohn, W. E., 627, **835**; 759, **840**
Cole, E. W., 1437, **1476**
Cole, K. S., 335, **350**
Cole, L. J., 91, **65**
Cole, R. D., 45, **367**; 628, **828**
Coleman, D. L., 981, **721**
Collier, C. R., 92, **270**
Collier, H. B., 629, **652**
Collier, H. D., 1061, **1263**
Collings, W. D., 93, **214**
Collins, G. P., 1185, **1333**
Collins, V. P., 1231, **733**
Collison, H. A., 902, **1075**
Colowick, S. P., 864, **931**
Colter, J. S., 1486, **1607**
Comai, C. L., 1389, **1449**
Comroe, J. H., Jr., 79, **519**; **420P**
Condie, R. M., 1487, **1533**
Condon, G. P., 792, **680**
Coniglio, J. G., 94, **522**
Conn, E. E., 630, **754**
Connolly, D. C., 95, **309**
Constantinides, P., 96, **14**
Conway, T. W., 631, **1047**
Cook, J. L., 833, **922**
Coolidge, T. B., 632, **1394**
Coon, J. M., 1062, **73**
Coon, M. J., 874, **949**; **821S**
Cooper, C. D., 633, **1048**
Cooper, D. Y., 495, **219**; 634, **626**
Cooper, J. A. D., 635, **961**
Cooper, M., 97, **421**
Coots, R. H., 558, **883**
Copenhaver, J. H., Jr., 98, **155**
Copley, A. L., 1567, **604**
Copp, D. H., 157, **440**
Corcoran, A. C., 99, **523**; 320, **418**
Cordes, F., 1030, **1097**
Cori, C. F., 804, **992**
Cormier, M. J., 950, **953**
Cornatzer, W. E., 636, **771**
Cornblath, M., 1390, **995**
Cornelius, C. E., 1063, **342**
Correll, E. G., 71, **303**
Corson, E. O., 1568, **201**
Corson, S. A., 1568, **201**
Cotlove, E., 100, **99**
Cotten, M. deV., 1064, **1227**
Cotzias, G. C., 1294, **641**
Couch, J. R., 637, **631**; 1398, **1472**
Coulson, R. A., 730, **1053**
Cournand, A., 51, **307**; 152, **310**; 164, **318**
Coursey, M. S., 1065, **1208**
Covino, B. G., 226, **381**
Cowgill, R. W., 638, **947**
Cox, G. E., 1360, **7**
Cox, W. M., Jr., 639, **934**
Crafa, J., 842, **1345**
Craig, F. N., 101, **169**
Craig, J. M., 1295, **1393**
Crampton, C. F., 640, **747**
Crampton, E. W., 1450, **1478**

Crane, F. L., 641, **647**
Cravens, W. W., 1444, **1491**
Crawford, W. L., 838, **935**
Criscuolo, D., 89, **225**
Crisp, N. W., 76, **308**
Critchlow, B. V., 102, **159**
Crocker, T. T., 1488, **1572**
Cronheim, G., 1066, **1308**
Cronheim, G. E., 1213, **1161**
Crosbie, R., 294, **410**
Crowell, E. A., 748, **986**
Crowell, J. W., 103, **190**
Crystal, D. K., 410, **143**
Csonka, F. A.. 642, **1475**
Cullimore, O. S., 576, **1041**
Cunningham, D. M., 205, **137**
Cunningham, L. W., 643, **799**
Curran, Gladys, B., 104, **524**
Curran, J. J., 104, **524**
Curry, J. H., Jr., 1210, **1233**

DaCosta, Frances, 47, **218**
Daft, F. S., 1433, **1518**
Dagg, C. P., 1418, **1495**
Dahl, Nancy, 418, **280**
Daigneault, E. A., 1067, **1309**; 1127, **1183**
D'Amato, H. E., 1267, **1132**
D'Amour, F. E., 105, **191**
Dancis, J., 792, **680**
Dandliker, W. B., 1391, **895**
Danford, H. G., 106, **275**
D'Angelo, S. A., 107, **525**
Danhof, I. E., 108, **285**
Daniel, E. E., 1068, **1191**
Darby, W. J., 957, **634**; 1435, **1519**
Datt, S. B., 1095, **1274**
Daughaday, W. H.. 109, **105**
Davenport, F. M., 1489, **1544**; 1506, **1545**; 1511, **1546**
Davenport, H. W., 110, **344**; **420P**
David, N. A., 1069, **1250**; 1119, **1320**
Davidsohn, I., **1368P**
Davidson, E. A., 823, **1020**
Davis, B. D., **607S**; **1286S**
Davis, C., 644, **766**
Davis, D. R., 1070, **26**
Davis, E. M., 1210. **1233**
Davis, F., 1205, **1337**
Davis, F. F., 645, **802**
Davis, G. D., 111, **243**
Davis, H., 112, **297**
Davis, J. E., 1071, **423**; 1257, **1340**
Davis, J. H., 789, **1007**
Davis, J. O., 113, **312**
Davis, J. W., 996, **677**
Davis, R. L., 1296, **1416**
Dawson, D., 220, **118**
Dawson, J. F., Jr., 114, **526**
Day, P. L., 1392, **1470**; 1456, **1501**; 1472, **1492**
Dayton, S., 1490, **716**
de Almeida, J. O., 1491, **1591**; 1550, **1590**
de Arellano, A. A. R., 231, **138**
Deatherage, B. H., 112, **297**
de Beer, E. J., 1207, **1198**
DeBias, D. A., 363, **213**
de Bodo, R. C., 9, **507**; 10, **215**; 925, **114**
DeBoer, B., 1072, **1310**; 1153, **1221**
Decker, C. F., 93, **214**
DeEds, F., 1014, **1299**; 1036, 1111; 1073, **1110**; 1275, **1133**
De Fontaine, D., 686, **825**
de Garilhe, M. P., 646, **988**
Dekker, E. E., 647, **660**
De Lancie, M. F., 648, **1011**
Delgado, J. M. R., 78, **445**; 115, **527**
del Greco, F., 99, **523**
Dement, W., 116, **244**
Demerec, M., **1285S**
Denison, M. E., 117, **334**; 1576, **123**
Dennis, W. H., 15, **282**; 387, **347**
Denslow, J. S., 118, **528**
Deodhar, S., 649, **724**
de Rodaniche, E., 1318, **1358**
Despain, L. G., 1265, **1092**
Dessauer, H. C., 650, **940**
Detrick, L. E., 1268, **1268**
Dettelbach, H. R., 1269, **1275**
Deuel, H. J., Jr., 547, **885**; 1387, **61**; **1460S**
Deutsch, H. F., 651, **970**
Devine, D., 1074, **1194**
Devlin, M. K., 764, **904**
Dews, P. B., 1075, **1127**
Diamond, I., 310, **93**
Dick, E., 1457, **1425**
Dickman, S. R., 652, **803**
Dicks, M., 1505, **1574**
Dieckert, J. W., 653, **886**
Dierkhising, O. C., 1532, **1548**
Dietrich, L. S., 654, **644**
Dietz, N., Jr., 417, **395**
Dill, W. A., 186, **1165**
Dille, J. M., 1076, **1247**
Diller, E. R., 772, **985**
Dillon, H. T., 378, **112**
Di Luzio, N. R., 119, **217**; 128, **216**
Dimick, M., 786, **778**
DiNella, R. R., 120, **503**
Dinning, J. S., 1392, **1470**; 1456, **1501**
DiPalma, J. R., 1077, **1311**
Dische, Z., 655, **1019**
Diserens, L. T., 1345, **1359**
Di Stefano, H. S., 1044, **1304**
Dittmer, K., 805, **1008**
Dituri, F., 656, **713**; **820S**
Dixon, F. J., 1492, **1580**
Dobriner, S., 698, **682**
Dobson, D. C., 1453, **1502**
Dobson, E. L., 121, **529**; 122, **195**
Dobson, H. L., 123, **20**
Doctor, B. P., 1427, **1497**
Doctor, V. M., 657, **722**
Dodds, B. F., 489, **594**
Doering, G. R., 45, **367**
Doherty, D. G., 627, **835**
Doi, A., 1008, **1084A**
Doisy, E. A., 877, **621**
Doisy, E. A., Jr., 816, **718**
Doisy, R. J., 870, **643**
Dominguez, R., 124, **94**
Donaldson, D. M., 1493, **1588**; 1504, **1541**
Donaldson. K. O., 658, **1030**
Dondey, M., 458, **582**
Dontas, A. S., 1026, **1264**
Doolan, P. D., 125, **156**
Dooley, C. L., 1394. **1486**
Dorfman, A., 622, **849**
Dorfman, R. I., 373, **332**; 565, **679**; 724, **622**; 952, **676**
Dornette, W. H. L., 1214, **1338**
Dornfest, B. S.. 126, **530**
Doty, R. W., 411, **248**
Doudoroff, M., 977, **846**
Dougherty, T. F.. 232. **390**
Doull, J., 1078, **62**
Dounce, A. L., 670, **688**
Doupe, J. O., **420P**
Dowling, H., 148, **535**
Downey, M., 26, **477**
Downing, M., 659, **833**
Drabkin, D. L., 1002, **921**
Dracos, F. J., 1079, **1245**
Drell, W., 377, **654**
Drevets, C., 1289, **1411**
Dreyer, N. B., 1080, **1312**
Dreyer, W. J., 841, **798**
Drimmer, F., 1490, **716**
Drisko, R. W., 891, **1072**
Dryer, R. L., 885. **1250**
DuBois, A. B., 57, **263**; 318, **267**
DuBois, K. P., 1081, **1313**; 1220, **70**
Duff, I. F., 878A, **1068A**
Duggan, E. L., 660, **839**
Duncan, G. D., 1414, **1435**
Duncan, G. M., 661, **632**
Duncan, G. W., 127, **335**
Dunlap, C. E., **1367P**
Dunlap, M. K., 1082, **1135**
Dunn, A. L., 508, **234**; 509, **596**
Dunn, M., 374, **278**
Dury, A., 128, **216**
Dyrenfurth, I., 960, **628**

Eades, C. H., Jr., 172, **429**; 662, **997**
Eagle, H., 1083, **937**; **1287S**
Easterday, O. D., 1084, **1141**
Easton, D. M., 129, **405**
Eberle, B. T., 257, **459**
Eckfeldt, G., 904, **935**
Edelberg, R., 130, **409**; 416, **MP p. 492**
Edelhoch, H., 1297, **812**
Edelmann, A., 131, **66**
Ederstrom, H. E., 132, **254**
Edmonds, M., 663, **735**
Edwards, C. H., 1393, **1509**
Edwards, R. J., 1381. **1503**
Edwards, S. W., 664, **649**
Egan. R., 665, **811**
Egdahl, R. H., 133, **145**
Eich, S., 822, **661**
Eichel, H. J., 134. **531**
Eichelberger, L., 550, **494**
Eik-Nes, K., 1085, **209**
Einheber, A., 531, **198**
Eisen, H. N., 940, **831**; 1494, **1585**
Eisenberg, M., 666, **901**
Eisenbrandt, L. L., 1067, **1309**; 1232, **1160**
Eisengart, A., 910, **638**
Eisler, M., 486, **592**
Eldred, E., 135, **136**
Eliasson, S., 136, **183**; 212, **546**; 250, **301**
Elion, G. B., 667, **852**; 708, **834**; 734, **668**
Elkinton, J. R., 23, **154**
Ellenbogen, E., 668, **745**
Ellingson, R. C., 639, **934**
Ellinwood, L. E., 1062, **73**
Elliott, J. R., 137, **337**
Elliott, W. B., 669, **850**
Elliott, W. H., 807, **719**
Ellis, A., 465, **96**
Ellis, E. J., 199, **313**
Ellis, M. E., 91, **65**
Ellis, J. P., 237, **315**
Ellis, S., 138, **104**; 1086, **1174**
Ellison, J., 1425, **1489**

Ellman, G. L., 1087, **1187**
Elmadjian, F., 139, **532**
Elvehjem, C. A., 672, **725**
Emmel, V. M., 39, **498**
Emerson, G. A., 1088, **1314**
Emerson, Gladys A., 1394, **1486**
Emmerson, M. A., 127, **335**
Emery, A. J., Jr., 670, **688**
Emory, E., 1249, **1295**
Endahl, B. A., 140, **333**
Engel, L. L., 565, **679**
Engel, R. W., 1410, **1445**
England, B., 1480, **1553**
Engle, R. R., 891, **1072**
English, J. A., 141, **75**
Enns, T., 671, **147**
Entenman, C., 190, **50**; 234, **11**
Epstein, M. A., 158, **538**
Erb, B. D., 58, **385**
Ericson, L.-E., 672, **726**
Erickson, B. R., 105, **191**
Erlanger, B. F., 1495, **801**
Ershoff, B. H., 1395, **1458**
Eskin, B. A., 142, **533**
Esplin, D. W., 1089, **1126**
Estabrook, R. W., 143, **699**
Estes, E. H., Jr., 515, **413**
Eto, M., 354, **434**
Etsten, B., 1057, **1237**
Evans, C. A., 1510, **1570**; **1395P**
Evans, E. A., Jr., 801, **1604**
Evans, H. M., 1380, **1465**; 1396, **1482**; 1473, **1525**
Evans, J. D., 144, **534**
Everett, G. M., 1090, **1094**; 1266, **1093**
Eversole, W. J., 145, **167**
Ewing, P. L., 1247, **1259**
Excell, B. J., 443, **364**
Eyzaguirre, C., 289, **398**

Fairley, J. L., 673, **741**
Falcone, A. B., 597, **759**; 799, **761**
Fales, F. W., 674, **843**
Fales, J. T., 300, **258**
Farah, A., 1044, **1304**; 1091, **1213**
Farber, E., 1298, **1376**
Farber, S., 1324, **27**
Farhi, L. E., 146, **265**; 382, **320**; 449, **379**
Farner, D. S., 147, **172**
Farr, L. E., 1084, **1141**
Faust, J. A., 1088, **1314**
Featherstone, R. M., 1035, **1210**; 1092, **1207**; 1093, **1315**; 1199, **1205**
Feigen, G. A., 1569, **424**
Feinberg, S. M., 1554, **1589**
Feinstein, A. R., 437, **206**
Feinstein, B., 299, **128**
Feldhaus, R. J., 371, **158**
Feldman, D. S., 525, **302**
Feldman, H. A., 1496, **1609**
Feldman, I., 1094, **1115**
Feldman, R., 1040, **1124**
Feller, D. D., 148, **535**
Feng, Y. S. L., 149, **536**; 323, **277**
Fenn, W. O., 150, **1225**; 179, **317**
Fenton, P. F., 1397, **1477**
Ferguson, J. H., 151, **39**
Ferguson, T. M., 1398, **1472**
Ferrari, G., 675, **757**
Fiala, A. E., 1299, **1350**
Fiala, S., 1299, **1350**
Field, J. B., 676, **1000**
Fields, J. P., 1071, **423**
Finamore, F. J., 247, **197**; 405, **196**
Finch, S. C., 1497, **1583**
Finerty, J. C., 359, **470**
Fingl, E., 1095, **1274**; 1190, **1239**
Fink, K., 677, **979**
Fink, R. M., 677, **979**
Finnegan, J. K., 1223, **1188**
Finney, C. R., 121, **529**
Firminger, H. I., 1300, **1375**
Firth, J., 1441, **1471**
Fischer, E. H., 678, **991**
Fischer, H. O. L., 567, **1017**
Fischer, J. E., 1399, **1453**
Fischer, M. A., 679, **749**
Fisher, H. W., 291, **559**
Fisher, M., 1385, **1483**
Fishman, A. P., 51, **307**; 152, **310**; 164, **318**
Fishman, W. H., 680, **674**
Fiskin, R. D., 888, **1010**
Fittipoldi, J. J., Jr., 1375, **1424**
Flavin, M., 681, **1027**
Fleming, D., 1424, **1457**
Fleming, W. R., 153, **439**
Flick, D. F., 1466, **1523**; 1467, **1442**
Foa, P. P., 154, **276**
Foard, M., 1287, **1355**
Fodor, P. J., 682, **792**
Fogh, J., 683, **1556**
Foldes, F. F., 1096, **1178**
Foley, J. F., 1330, **1370**
Folk, G. E., Jr., 155, **537**
Follis, R. H., Jr., 1301, **1351**
Foltz, E. L., 1097, **1293**
Fopeano, J. V., 790, **967**
Forbes, I., 19, **510**
Forbes, J. C., 661, **632**
Ford, L., 743, **756**
Ford, R., 333, **125**; 1098, **1277**
Forget, A., 1499, **1542**
Forrest, W., 906, **794**
Forster, R. E., 352, **377**
Forster, R. P., 98, **155**
Foster, J. F., 684, **810**
Foulkes, E. C., 685, **1014**
Foulks, J. G., 156, **153**
Fowler, D. I., 618, **999**
Fowler, W. S., 453, **271**
Fox, H., 1474, **1526**
Fox, J. P., 1498, **1606**
Fox, M. R. S., 1400, **1447**
Fox, S. W., 686, **826**
Francis, F. E., 687, **681**
Francis, T., Jr., 1489, **1544**; 1506, **1545**; 1511, **1546**
Franklin, D. L., 410, **143**
Franzl, R. E., 688, **894**
Frappier, A., 1499, **1542**
Fraser, H. F., 1099, **1316**; 1145, **1123**
Fraser, I. M., 1100, **1130**
Fraser, M. J., 266, **502**
Frazer, M., 1091, **1213**
Frederickson, E. L., 1101, **1235**
Frederickson, J. M., 157, **440**
Fredette, V., 1499, **1542**
Freedland, R. A., 720, **872**
Freeman, G., 158, **538**; 1324, **27**
Freeman, S., 137, **337**; 533, **598**
Fregly, M. J., 159, **417**
French, C. S., 689, **896**
French, J. D., 212, **545**
French, R. G., 1401, **1510**
Frenkel, J. K., 1302, **1401**
Fresco, J. R., 690, **738**
Fresh, J. W., 151, **39**
Freygang, W. H., Jr., 274, **459**; 460, **451**
Fridovich, I., 691, **645**
Friedberg, W., 692, **939**
Frieden, C., 553, **610**
Frieden, E., 1003, **877**
Frieden, E. H., 693, **618**
Friedkin, M., 694, **982**
Friedman, C. L., 162, **455**
Friedman, G., 1102, **1114**
Friedman, J. J., 160, **362**
Friedman, M., 474, **394**
Friedman, M. H. F., 161, **345**; 492, **595**
Friedman, S. M., 162, **455**
Friess, S. L., 163, **500**
Frisell, W. R., 695, **732**
Fritts, H. W., Jr., 164, **318**
Fritz, I. B., 165, **439**
Frohman, C. E., 696, **1049**
Fromm, H. J., 697, **935**
Frost, D. V., 1402, **1443**
Frumin, A. M., 883, **1581**
Fry, W. J., 166, **MP p. 492**
Fujimori, H., 1584, **1273**
Fujimoto, G. I., 985, **673**
Fukushima, D. K., 698, **682**
Fuller, R. C., 607, **762**
Fulton, G. P., 35, **513**; 167, **MP p. 492**
Funderburk, W. H., 1103, **1120**
Funk, C., 682, **792**; 699, **1050**
Furchgott, R. F., 1104, **1181**
Furnas, D. W., 1105, **1129**
Furth, J., 1303, **1409**

Gabrieli, E. R., 168, **57**
Gabrio, B. W., 700, **981**
Gadsden, E. L., 1303, **1409**
Gaebler, O. H., 580, **1034**
Galambos, R., 169, **539**
Galansino, G., 154, **276**
Galdston, M., 170, **540**
Galkin, T. W., 301, **240**
Gallagher, T. F., 598, **672**; 879, **717**
Galloway, Leora S., 1470, **1524**
Galston, A. W., 701, **859**
Galvin, R. D., 106, **275**
Ganong, W. F., 171, **249**
Gant, M., 264, **16**
Ganz, A., 172, **429**; 1106, **1317**; 1584, **1273**
Gardner, E. D., 173, **181**; 337, **178**
Gardner, T. H., 36, **453**
Garfinkel, E., 569, **783**
Garibaldi, J. A., 702, **920**
Garoutte, B., 1105, **1129**
Garren, H. W., 1413, **1452**
Garvey, J. S., 1501, **1584**
Garvin, S. J., 175, **485**
Gasmann, H. C. E., 1041, **224**
Gassner, F. X., 1570, **327**
Gatt, S., 905, **915**
Gatty, H., 1439, **1432**
Geber, W. F., 288, **121**
Gebhardt, L. P., 1476, **1565**; 1507, **1510**
Geer, J. C., 1304, **4**; 1336, **1380**
Gehenio, P. M., 311, **426**
Geiger, A., 174, **443**

Geiger, J. W., 288, **121**
Geiger, R. S., 175, **485**
Geiling, E. M. K., 1011, **1298**
Geiman, Q. M., 578, **910**
Geissman, T. A., 978, **1201**
Gelfan, S., 176, **127**
Gell, C. F., 177, **438**
Gemmill, C. L., 1107, **466**
Genghof, D. S., 822, **661**
Gerarde, H. W., 1108, **1134**
Gergely, J., 703, **808**
Gernandt, B. E., 178, **130**
Gerol, A. Y., 1311, **48**
Gerschman, R., 179, **317**
Gershoff, S. N., 1403, **1496**
Gerstner, H. B., 180, **255**
Geschwender, D., 1425, **1489**
Gey, G. O., 1287, **1355**
Gibbens, J., 1404, **1427**
Gibbons, A. J., 1117, **38**
Gibbs, M., 704, **844**
Gidez, L. I., 705, **776**
Giebisch, G., 181, **150**
Gigee, W., 381, **87**
Gilbert, D. L., 179, **317**
Gilbert, R. P., 215, **257**
Giles, J. P., 1559, **1566**
Gilfoil, T. M., 1193, **1217**
Gilmore, J. P., 182, **194**
Gimbel, N., 1448, **1431**
Ginsberg, H. S., 1502, **1552**
Ginski, J. M., 354, **434**
Girerd, R. J., 199, **313**; 200, **544**
Giroud, C., 960, **628**
Gitlin, D., 742, **55**; 1295, **1393**
Gittinger, W. C., 1109, **1257**; 1113, **1258**
Glass, G. B. J., 183, **1474**; 184, **541**
Glasser, S. R., 185, **69**
Glaubach, S., 1283, **1415**
Glaviano, V. V., 517, **144**
Glazko, A. J., 186, **1165**
Glenn, E. M., 867, **625**
Gluckman, M. I., 1110, **1203**
Goff, S., 1054, **1140**; 1111, **1318**; 1112, **1192**
Golbey, M., 1113, **1258**
Gold, E., 1502, **1552**
Gold, H., 270, **311**; 1584, **1273**
Gold, N. I., 171, **249**
Goldbaum, L. R., 1033, **1106**
Goldbloom, A. A., 183, **1474**
Goldfeder, A., 187, **78**; 332, **564**
Goldie, H., 1503, **1414**; 1556, **1613**
Goldman, D. S., 706, **956**
Goldsmith, E. D., 188, **542**
Goldsmith, G. A., 1404, **1427**
Goldstein, L., 1196, **1336**
Goldstein, M. S., 189, **235**; 383, **467**; 537, **113**
Goldstein, R., 707, **25**
Goldstein, S., 1016, **1267**
Goldstone, A. D., 1133, **44**; 1241, **1339**
Goldwater, W. H., 190, **50**
Gollan, F., 191, **543**; 353, **435**
Good, R. A., 1487, **1533**
Goodkind, M. J., 249, **551**
Goodland, R. L., 192, **391**
Goodman, H., 1114, **1319**
Goodman, I., 708, **834**
Goodman, L. S., 1243, **1117**; 1261, **1090**; 1264, **1057**
Goodman, M., 731, **806**
Goodsell, J. S., 1115, **1089**
Gordon, A. S., 126, **530**
Gordon, E. E., 963, **1028**
Gordon, L. E., 1305, **1363**
Gordon, M. P., 709, **980**
Gordon, S. M., 1032, **1302**
Gordon, W. G., 710, **829**
Gorlin, R., 193, **305**
Gorry, J. D., 880, **687**
Gorson, R., 17, **448**
Gorzynski, E. A., 1536, **1577**
Goth, A., 1129, **1163**
Gots, J. S., 711, **978**
Goucher, C. R., 712, **1051**
Gould, R. G., 1582, **3**
Gourley, D. R. H., 194, **437**
Grace, J. T., 191, **543**
Graham, J. B., 1306, **41**
Graham, J. H., 1139, **1324**
Graham, T., 1387, **61**
Grande, F., 75, **472**; 195, **232**; 1376, **8**
Grannis, G., 436, **876**
Grant, F., 17, **448**
Grant, R., 196, **173**
Grant, W. C., 197, **428**
Grau, C. R., 1405, **1444**
Gray, C. L., 590, **1043**
Gray, E. H., 1116, **45**
Gray, I., 1033, **1106**
Graybiel, A., 198, **296**
Green, D. E., 572, **695**
Green, D. M., 199, **313**; 200, **544**
Green, H. D., 201, **256**
Green, I. J., 1532, **1548**
Greenbaum, L. M., 896, **976**
Greenberg, L. D., 713, **633**; 1429, **1494**
Greenberg, R., 202, **231**
Greene, L., 294, **410**
Greene, R. D., 1406, **1457**
Greenspon, S. A., 1326, **1419**
Greenstone, S. M., 873, **1004**
Greenwald, I., 1407, **1511**
Greep, R. O., 279, **556**
Gregersen, M., 203, **441**
Gregg, D. E., 413, **462**
Gregory, J. D., 714, **983**
Greiff, D., 1307, **51**
Greig, M. E., 1048, **1209**; 1117, **38**
Greiner, T., 1584, **1273**
Greiner, T. H., 71, **303**; 1118, **1128**
Grelis, M. E., 1111, **1318**; 1112, **1192**
Grenell, R. G., 204, **545**
Grice, H. C., 1013, **1138**
Griffin, J., 66, **515**
Griffin, O. R., 1308, **1**
Griffith, W. B., 1119, **1320**
Griffith, W. H., **1459S**
Grimmett, P., 571, **942**
Grinnell, E. H., 1253, **1230**
Griswold, H. E., Jr., 205, **137**; 499, **89**
Groblewski, G. E., 1204, **1169**
Grodins, F. S., 206, **139**
Grodsky, M., 1120, **1321**
Groethuysen, U. C., 42, **188**
Grollman, A., 1121, **1156**
Grollman, A. H., 492, **595**
Gross, A. J., 207, **702**
Gross, D., 944, **875**
Gross, E. G., 1151, **1218**; 1224, **1222**; 1281, **1219**
Gross, S. R., 715, **847**; 1500, **848**
Grossman, A. J., 1022, **1256**; 1109, **1257**; 1122, **1193**; 1255, **1259**
Grossman, J., 208, **458**; 527, **229**
Grossman, M. I., 209, **19**
Gruber, C. M., Jr., 1123, **1246**
Gruhzit, C. C., 1124, **1228**
Grunberg-Manago, M., 716, **984**
Grundfest, H., 210, **356**
Gryder, J. M., 866, **1146**
Gubler, C. J., 1408, **1428**
Guccione, I., 1136, **1322**
Gude, W. D., 1363, **1405**
Guest, M. M., 82, **22**
Guillemin, R., 211, **109**
Gully, R. J., 217, **247**
Gum, J. R., 1274, **1098**
Gunn, C. G., 136, **183**; 212, **546**
Gunn, F. D., 1541, **1611**
Gunsalus, I. C., 865, **1029**
Gupta, O. P., 1455, **1433**
Gurin, S., 656, **713**; **816S**
Gut, M., 952, **676**
Gutensohn, O. R., 118, **528**
Gutman, A. B., 1042, **1109**
Guttentag, O., 243, **363**
Guy, G., 89, **226**
Guyton, A. C., 213, **140**
Guzman, M., 1454, **1426**
Gyi, K. K., 1504, **1541**

Haas, V., 1340, **1421**
Habekost, R. C., 1100, **1130**
Haber, E., 214, **319**
Habib, Y. A., 25, **369**
Hack, M. H., 717, **884**
Hackett, A. J., 1529, **1571**
Haddy, F. J., 215, **257**
Hafkenschiel, J. H., 216, **253**
Haggart, J., 1125, **1224**
Hahn, P. F., 1309, **1374**
Haist, R. E., 1571, **163**
Hajek, N., **419P**, **420P**
Hakala, M. T., 718, **630**
Halberg, F., 217, **247**
Hale, W. W., 1367, **1366**
Haley, T. J., 1126, **1251**; 1172, **81**; 1187, **1334**; 1268, **1268**
Hall, B. V., 218, **101**
Hall, C. E., 219, **193**
Hall, O., 219, **193**
Hall, P. W., 447, **166**
Hall, V. E., **420P**
Hallett, E. A., 1127, **1183**
Halliday, J. W., 558, **883**
Halpert, B., 1334, **1420**
Halley, Y. D., 1361, **957**
Halstead, B. W., 1100, **1130**
Halsted, J. A., 939, **1346**
Hamerman, D., 719, **1018**
Hamill, R. L., 606, **723**
Hamilton, L., 1574, **603**
Hammel, H. T., 221, **115**
Hanahan, D. J., 955, **892**
Handford, S. W., 182, **194**
Handler, P., 691, **645**; 754, **663**
Handley, C. A., 1098, **1277**
Hane, S., 394, **161**
Hankes, L. V., 1310, **807**
Hanna, C., 1127, **1183**
Hansbury, E., 797, **627**
Hansen, A. E., 1409, **1437**; 1459, **1488**; 1469, **1438**
Hansen, R. G., 720, **872**
Hanson, F. R., 811, **623**

Hardenbergh, E., 220, **118**
Hardy, J. D., 221, **115**
Hare, K., 222, **203**
Hare, R. S., 222, **203**
Harper, A. E., 672, **725**
Harper, H. A., 125, **155**
Harper, P. V., 367, **321**; 1311, **48**; 1322, **49**
Harricharan, C. E., 266, **502**
Harrington, H., 721, **787**
Harrington, M. E., 63, **407**
Harris, A. S., 223, **84**
Harris, J., 722, **730**
Harris, P. L., 555, **775**
Harris, P. N., 1053, **1113**; 1128, **1373**
Harris, R. S., 1383, **1434**; 1384, **1508**
Harrison, B., 1211, **1139**
Harrison, F., 1129, **1163**
Harrison, F. M., 224, **100**
Harrisson, J. W. E., 1016, **1267**
Harshman, S., 891, **1072**
Harter, J. G., 1547, **1596**
Hartman, F. W., 32, **370**; 1321, **1142**; **1358P**
Hartman, S., 30, **511**
Hartman, S. C., 787, **975**
Hartnett, C., 109, **105**
Hartroft, W. S., **1462S**
Harvey, C. C., 1414, **1435**
Harvey, S. C., 1130, **1202**
Hasegawa, A., 1078, **62**
Hash, J. H., 1410, **1445**
Hass, G. M., 1282, **1406**; 1291, **1389**; 1293, **1390**; 1352, **1392**
Hassid, W. Z., 577, **845**
Hasson, Margo, 1288, **1404**
Hatch, F. T., 719, **1018**
Hauge, J. G., 641, **647**
Haugen, F. P., 325, **186**
Haurowitz, F., 1505, **1574**
Haven, F. L., 723, **793**
Hawkins, R. D., 1571, **163**
Hawthorne, E. W., 225, **314**
Hayano, M., 724, **622**
Hayes, A., 408, **433**
Haynes, E. E., 1481, **1582**
Hazleton, L. W., 1116, **45**; 1147, **1170**
Hearn, W. R., 1131, **1131**
Heath, H. D., 1312, **1356**; 1354, **1357**
Heath, R. G., 783, **165**
Hecht, H. H., 348, **386**
Hechter, H. H., 46, **59**
Hechter, O., 477, **678**; **824S**
Hedgecock, L. W., 1060, **1307**; 1313, **1397**
Heffler, M. F., 698, **682**
Hegnauer, A. H., 226, **381**
Heidelberger, C., 785, **788**
Heilbrunn, L. V., 227, **475**
Heinrich, M., Jr., 1132, **1190**
Heinz, E., 725, **1052**
Heisey, S. R., 1133, **44**; 1241, **1339**
Heisler, C. R., 1411, **1469**
Heller, J. H., 726, **397**
Hellman, L., 727, **640**; 879, **717**
Helmer, O. M., 728, **453**
Hemingway, A., 1572, **175**
Hendershot, L. C., 1134, **1182**
Henderson, F. G., 1251, **1244**
Henderson, R. B., 677, **979**
Hendley, C. D., 1135, **1122**
Hendlin, D., 729, **912**
Henis, D. B., 738, **890**
Hennessy, A. V., 1489, **1544**; 1506, **1545**; 1511, **1546**
Heppel, L. A., 932, **1080**
Herling, F., 698, **682**
Hernandez, M. G., 775, **651**
Hernandez, T., 730, **1053**
Hernández-Peón, R., 228, **131**; 229, **547**; 428, **135**
Herrmann, H., 744, **683**
Herrmann, R. L., 673, **741**
Herschberger, R., 1198, **1294**; 1228, **1215**
Hershey, S. G., 1136, **1322**
Herting, D. C., 555, **775**
Hertzman, A. B., 230, **174**; 365, **116**
Hess, G. P., 731, **806**
Hetzel, P. S., 231, **138**
Hickey, M. D., 896, **976**
Hicks, R. N., 1037, **1303**
Hidalgo, J., 1137, **1096**; 1248, **1095**
Hiestand, W. A., 114, **526**; 117, **334**; 1576, **123**
Higginbotham, R. D., 232, **390**
High, E. G., 1412, **1505**
Highman, B., 1314, **1417**
Hilf, R., 1374, **1493**
Hill, B., 1537, **1612**
Hill, C. H., 1413, **1452**
Hill, D. L., 1138, **1323**
Hill, D. W., 1507, **1610**
Hill, F. W., 1453, **1502**
Hill, R. J., 732, **657**
Hill, R. L., 733, **795**
Hill, T. L., 233, **490**
Hilleman, M. R., 1508, **1551**
Hillier, J., 238, **427**
Hillyard, L. A., 234, **11**
Hilz, H., 735, **753**
Himelson, A., 415, **261**
Himmelstein, A., 152, **310**
Hine, C. H., 1065, **1208**; 1082, **1135**; 1105, **1129**; 1161, **1212**; 1225, **1238**; 1260, **1211**
Hitchings, G. H., 708, **834**; 734, **668**
Hoagland, H., 34, **168**
Hoagland, M. B., 235, **882**
Hobby, G., 603, **768**
Hoch, F. L., 500, **932**
Hochstein, P., 736, **853**
Hochstrasser, H., 737, **1054**
Hock, R. J., 236, **479**
Hodge, H. C., 1094, **1115**; 1200, **1150**
Hodges, J. L., Jr., 243, **363**
Hoelscher, B., 89, **226**; 237, **315**
Hoff, H. E., **420P**
Hoffman, J. F., 238, **427**
Hoffman, P., 823, **1020**
Hofman, B., 1512, **1553**
Hofmann, K., 738, **890**
Hogeboom, G. H., **JS, p. 492**
Hokin, L. E., 739, **1055**
Hokin, M. R., 739, **1055**
Holaday, D. A., 214, **319**; 239, **266**
Holburn, R. R., 523, **42**
Holland, W. C., 1139, **1324**
Hollander, F., 240, **548**; 255, **283**
Hollander, V. P., 237, **315**
Hollett, C., 241, **18**
Hollingsworth, J. W., 1497, **1583**
Hollinshead, A. C., 1252, **1099**
Hollis, V., 170, **540**
Holloway, R. J., 1039, **341**; 1140, **365**; 1173, **339**
Holman, R. L., 1304, **4**; 1308, **1**; 1336, **1380**
Holt, J. P., 1573, **142**
Holt, L. E., Jr., 1458, **1521**; 1459, **1488**
Homeyer, T. G., 686, **826**
Hong, S. S., 314, **292**
Honour, A. J., 157, **440**
Hopkins, A. L., 242, **549**; 1325, **1386**
Hopper, J., Jr., 243, **363**; 524, **365**
Hopwood, M. L., 1570, **327**
Horecker, B. L., 979, **753**
Horita, A., 1076, **1247**
Horne, A. F., 503, **83**
Horowitz, H. B., 208, **458**; 527, **229**
Horowitz, S. T., 740, **1056**
Hoshiko, T., 244, **200**
Horstmann, D. M., 159, **1564**
Horvath, S. M., 1574, **604**; 1575, **176**
Horwitt, M. K., 1414, **1435**
Hotta, S., 1510, **1570**
Houck, C., 1331, **47**
Houck, C. R., 245, **285**; 246, **550**
Houde, R. W., 1141, **1325**
Houpt, T. R., 430, **205**; 431, **576**
Howard, F. A., 1018, **1186**
Howard, J. W., 1177, **1234**
Howell, D. S., 113, **312**
Howton, D. R., 927, **782**
Hoy, P. A., 4, **207**
Hsia, D. Y.-Y., 664, **649**
Hsia, S. L., 816, **718**
Hsiao, C. Y. Y., 738, **890**
Hsieh, K. M., 1315, **1349**
Huang, K. C., 1142, **1280**; 1159, **1281**
Hubay, C. A., 52, **306**
Hubbard, R., 741, **614**
Hübscher, G., 806, **646**
Hudson, G. W., 94, **522**
Hudson, P. B., 796, **1061**
Huebl, H., 1104, **1181**
Huennekens, F. M., 700, **981**; 763, **862**
Huff, R. L., 148, **535**
Hughes, D., 1272, **1341**
Hughes, J. R., 301, **240**
Hughes, W. L., 742, **56**
Hughes, W. M., 1202, **1162**
Hume, D. M., 171, **249**
Humoller, F. L., 508, **234**; 509, **596**
Hundley, J. M., 1415, **1512**; 1434, **1498**
Hunter, A. S., 247, **197**; 405, **196**
Hunter, F. E., Jr., 743, **756**
Hunter, F. R., 247, **197**; 405, **196**
Hunter, J., 248, **120**
Hurd, M., 1569, **424**
Hurley, H. J., Jr., 333, **125**
Hurley, J. E., 643, **799**
Hurley, L. S., 744, **683**
Hurley, P. D., 414, **734**
Hurn, M. M., 1335, **28**
Hurwitz, J., 745, **871**
Hussey, C. V., 746, **23**
Hutcheson, D. E., 1143, **1231**
Hutcheson, R. M., 951, **870**
Hutchin, M. E., 125, **156**
Hutchings, B. L., 915, **728**
Hutchison, D. J., 1416, **1468**
Hutt, B. K., 1575, **176**
Hvolboll, E. E., 939, **1346**
Hyatt, R. E., 113, **312**; 249, **551**
Hyde, J. E., 250, **301**
Hyman, A. L., 1316, **1382**
Hyman, C., 251, **396**

Iampietro, P. F., 252, **204**
Imagawa, D. T., 1312, **1355**; 1354, **1357**
Incefy, G., 20, **273**
Ing, R. B., 1415, **1512**
Ingle, D. J., **608S**
Intoccia, A., 504, **459**
Irvin, E. M., 884, **1071**
Irvin, J. L., 884, **1071**
Isbell, H., 1099, **1316**; 1144, **1325**; 1145, **1123**
Israel, J., 239, **265**
Ivy, A. C., 253, **346**

Jackson, E. M., 364, **422**
Jacob, M., 747, **758**
Jacobs, E., 747, **758**
Jacobs, F. A., 254, **552**
Jacobs, M. H., 632, **1394**
Jacubeit, M., 655, **1019**
Jahiel, R., 1546, **1552**
Jailer, J. W., 881, **1039**
Jameson, E., 1562, **1540**
Jandorf, B. J., 748, **985**
Janowitz, H. D., 255, **283**
Jaques, L. B., 1056, **34**
Jaques, W. E., 1316, **1382**
Jarnum, S. A., 430, **205**; 431, **576**
Jasper, R. L., 117, **334**; 1576, **123**
Jeffay, H., 749, **639**
Jeffries, B. R., 1503, **1414**
Jenerick, H., 256, **483**
Jenney, E. H., 1146, **1085**
Jensen, C., 132, **254**
Jensen, K. E., 1511, **1545**
Jiminez, M., 520, **37**
Joachheim, K. A., 1514, **1550**
Jochim, K. E., 257, **459**
Johnson, B. B., 258, **435**
Johnson, B. C., 991, **637**; 1441, **1471**
Johnson, C. W., 415, **261**
Johnson, F. H., 259, **478**
Johnson, J. C., 260, **553**
Johnson, N., 1425, **1439**
Johnson, P. C., 261, **554**
Johnson, R. E., 1320, **1441**
Johnson, Ruth E., 1319, **1418**
Johnson, S. A., 901, **31**
Johnston, C. D., 1147, **1170**
Johnston, R. B., 750, **796**
Jonas, H., 262, **79**
Jones, C. H., 43, **179**
Jones, E. M., 1417, **1490**
Jones, F. T., 1036, **1111**; 1073, **1110**
Jones, F., 341, **425**
Jones, J. E., 263, **329**
Jones, J. K. N., 443, **364**
Jones, M., 1092, **1207**
Jones, M. E., 751, **654**
Jones, P. S., 1234, **1145**
Jones, R., 1329, **1410**
Jones, R. M., 191, **543**
Jones, R. S., 1317, **1400**
Jordan, M. E., 1498, **1606**
Julian, L. M., 1148, **340**
Jungeblut, C. W., 1318, **1358**; 1512, **1563**

Kabara, J. J., 752, **893**
Kabat, E. A., 1513, **1601**
Kahn, J. B., Jr., 1149, **1232**
Kahn, S. G., 991, **537**
Kalbach, H., 1166, **68**
Kalman, C. F., 336, **1022**
Kalter, S. S., 1514, **1550**
Kamen, M. D., 753, **701**
Kamijo, K., 1150, **1119**
Kamin, H., 754, **653**
Kandel, A., 1219, **1276**
Kao, C. Y., 210, **356**
Kao, K-y. T., 843, **752**
Kaplan, A., 264, **16**
Kaplan, A. S., 1515, **1554**
Kaplan, C. M., 521, **281**
Kaplan, H. M., 265, **482**
Kaplan, J. G., 266, **502**
Kaplan, N. O., 605, **857**
Karczmar, A. G., 1167, **1175**
Karler, A., 755, **889**; 1516, **1532**
Karnofsky, D. A., 1418, **1495**
Karnovsky, M. L., 808, **1063**
Karush, F., 1517, **1586**
Karvinen, E., 267, **290**
Katsh, S., 268, **555**; 269, **468**
Katz, L. N., 5, **505**; 270, **311**; 372, **13**
Kaufmas, J., 287, **106**
Kaunitz, H., 1319, **1418**; 1320, **1441**
Kazenko, A., 186, **1165**
Kearney, E. B., 912, **696**
Keasling, H. H., 1151, **1218**; 1199, **1205**; 1281, **1219**
Keats, A. S., 1152, **1220**
Keith, E. F., 1153, **1221**
Keller, E. B., 756, **878**
Kelley, B., 271, **442**
Kelly, A. R., 1321, **1142**
Kelly, J. W., 1413, **1452**
Kelly, K. H., 1030, **1097**
Kelly, M. G., 1230, **1189**
Keltz, A., 272, **751**
Kempe, C. H., 1518, **1602**
Kendall, F. E., 1490, **716**
Kennard, M. A., 273, **242**
Kennedy, E. P., 757, **772**
Kennedy, N. K., 400, **403**
Kennedy, T., 1311, **48**; 1322, **49**
Kerner, M., 1154, **1105**
Kerr, D. I. B., 325, **186**
Kessler, W. B., 1452, **5**
Keston, A. S., 758, **946**
Kety, S. S., 274, **450**; 298, **252**; 460, **451**
Keys, A., 67, **471**; 195, **232**; 1376, **8**
Khym, J. X., 759, **840**
Kiang, S. P., 10, **215**
Kibbey, I. I., 1155, **1265**
Kielley, R. K., 760, **1057**
Kielley, W. W., 761, **1058**
Kihara, H., 762, **850**
Kik, M. C., 1419, **1513**
Kilbourne, E. D., 1519, **1549**
Kilgore, W. G., 292, **111**
Kilgour, G. L., 763, **862**
Kimmel, H., 436, **876**
Kimmelstiel, R., 275, **239**
Kinard, F. W., 276, **474**
Kincaid, J. F., 934, **1143**
King, J. T., 277, **316**
King, R. R., Jr., 1378, **1429**
King, T. E., 764, **904**; 765, **902**
King, T. O., 1156, **1167**; 1157, **1327**
Kinney, T. D., **1367P**
Kinosita, R., 1323, **1388**
Kinsell, L. W., **1463S**
Kinsella, R. A., Jr., 687, **681**
Kinter, W. B., 360, **95**
Kirk, M., 494, **228**
Kirklin, J. W., 95, **309**
Kirschman, J. C., 1420, **1504**
Kiser, J. C., 1158, **1328**
Kitos, P. A., 765, **902**
Kitzinger, C., 376, **491**
Kleiber, M., 401, **235**; 591, **1025**
Klein, E., 1324, **27**; 1372, **1423**
Klein, J. R., 766, **72**
Klein, M., 1284, **239**
Kleinerman, J., 1325, **1386**
Kleitman, N., 116, **244**
Klitgaard, H. M., 278, **454**
Knight, H. B., 1320, **1441**
Kniseley, R. M., 778, **80**
Knobil, E., 279, **556**
Knoefel, P. K., 1142, **1230**; 1159, **1281**
Knowles, J. H., 193, **305**
Knox, C. H., 1252, **1099**
Knox, W. E., 664, **649**
Knudson, A., 616, **1035**
Kobayashi, Y., 1160, **1329**
Koch, A. L., 485, **739**; 767, **742**
Kochakian, C. D., 140, **333**
Kocholaty, W., 712, **1051**
Koda, C., 397, **572**
Kodama, J. K., 1161, **1212**
Koehler, H. M., 1008, **1084A**
Koelle, G. B., 1150, **1119**; 1162, **1171**
Koeppe, O. J., 597, **759**; 768, **929**
Koeppe, R. E., 732, **657**
Koff, G., 1110, **1203**
Kohn, K. W., 214, **319**
Koizumi, K., 61, **401**
Kolin, A., 769, **898**
Koneff, A. A., 1461, **1480**
Koon, M. A., 754, **663**
Kopeloff, L. M., 87, **521**
Kopeloff, N., 87, **521**
Koppanyi, T., 1163, **1166**
Koppel, J. L., 770, **30**
Korey, S. R., 771, **692**
Korkes, S., 633, **1048**
Kornberg, H. L., 924, **948**
Kornfield, A. T., 280, **557**
Korngold, L., 1520, **1537**
Korol, B., 1191, **1271**
Korzenovsky, M., 772, **985**
Koshland, D. E., Jr., 773, **927**
Koshland, M. E., 1521, **1579**
Koster, R., 1164, **1292**
Koster, S., 1066, **1308**
Kotsevalov, O., 1561, **1531**
Koukides, M., 555, **775**
Kovalenko, V., 822, **651**
Kowald, J. W., 1452, **5**
Kraatz, C. P., 1165, **1168**
Kraintz, F. W., 490, **336**
Kraintz, L., 281, **157**
Krakower, C. A., 1326, **1419**
Kramer, E. R., 1233, **1159**
Krasna, A., 872, **616**
Kratochvil, C. H., 282, **748**; 651, **970**
Krauss, R. W., 1415, **1512**
Kraut, J., 1391, **895**
Krebs, E. G., 678, **991**
Krebs, J. S., 1148, **340**; 1166, **68**
Kremen, D., 313, **553**
Kremen, S. H., 283, **553**
Kreplich, J., 1384, **1508**
Kreutzer, V., 1530, **1600**
Krieger, H., 789, **1007**
Krieger, H. P., 284, **246**

Krimsky, I., 774, **930**
Krinsky, N., 285, **615**
Krnjević ,K., 286, **349**
Krotkov, M. S., 85, **520**
Krueckel, B., 583, **735**
Krueger, A. P., 1540, **1605**
Krueger, H., 287, **105**
Kubicek, W. G., 288, **121**
Kuby, S. A., 844, **945**
Kuby, S. A., 800, **700**
Kuffler, S. W., 289, **398**
Kuhn, W. L., 1270, **1176**
Kuhns, W. J., 1522, **1594**
Kulaski, B., 1280, **1214**
Kun, E., 775, **651**
Kunkel, H. O., 776, **972**
Kurahashi, K., 777, **612**
Kutsakis, A., 1327, **1391**
Kvamme, L., 1498, **1606**
Kyker, G. C., 778, **80**

Labbe, R. F., 779, **914**; 1263, **1149**
Lacon, C. R., 1418, **1495**
Lagerborg, D. L., 1539, **1569**
Lalich, J. J., 564, **671**; 1286, **1347**
Lamden, M. P., 1421, **1456**
Lamont, W. A., 767, **742**
Lampkin, J. M., 18, **509**
Lamport, H., 1577, **493**
Lamson, B. G., 1326A, **1384A**
Lamson, E., 139, **532**
Lanchantin, G. F., 780, **1059**
Landau, W. M., 274, **450**; 460, **451**
Landis, C., 290, **187**
Landowne, M., 49, **146**; 291, **559**
Lands, A. M., 1167, **1175**
Lang, S., 781, **1385**
Langdell, R. D., 1360, **7**
Lange, K., 1168, **1403**
Langley, L. L., 292, **111**
Lanier, R. R., 1274, **1098**
Lardy, H., 948, **964**
Larner, J., 782, **865**
Larrabee, J. E., 451, **580**
Larrain, G., 270, **311**
Larsen, E. G., 1422, **1514**
Larson, M., 1054, **1140**; 1055, **1306**
Larson, P. S., 1215, **1116**
Laskowski, M., 646, **988**
Lathrop, K. A., 1311, **48**; 1322, **49**
Latimer, C. N., 293, **404**
Latta, H., 1327, **1391**
Laughton, R., 184, **541**
LaVia, M. F., 1328, **1362**
Lavik, P. S., 721, **787**
Lawlis, M., 1409, **1437**
Lawson, J. R., 983, **1147**
Lawton, R. W., 294, **410**
Leach, B. E., 783, **165**
Leach, W. G., 74, **171**
Leathem, J. H., 295, **107**
LeBrie, S. J., 486, **592**
Leduc, E. H., 1368, **1372**
Lee, K. S., 1169, **1205**
Lee, N. D., 784, **925**
Lee, Y. C. P., 277, **316**
Lehman, I. R., 837, **855**
Lehr, D., 1170, **1383**; 1171, **1330**; 1184, **1384**
Leibman, K. C., 785, **788**
Leibowitz, H., 538, **182**
Leimdorfer, A., 296, **560**; 297, **85**
Leitch, J. L., 1172, **81**
Leiter, L., 208, **458**; 527, **229**
Lemmon, R., 786, **778**
Lemon, H. M., 996, **677**
Lengeman, F. W., 1389, **1449**
Lennette, E. H., 1480, **1553**
Lennox, C. S., 1041, **224**
Leon, M. A., 1329, **1410**
Leone, C. A., 1523, **1536**
Leong, G. F., 1039, **341**; 1140, **366**; 1173, **339**
LePage, G. A., 663, **736**
Lepkovsky, S., 786, **778**; 1423, **1515**; 1424, **1457**
LeRoy, G. V., 982, **715**
Leskowitz, S., 1513, **1601**
Levenberg, B., 787, **975**
Levenson, M., 202, **231**
Leverton, R. M., 1425, **1489**
Levey, H. A., 788, **959**
Levey, S., 789, **1007**
Levi-Montalcini, R., 626, **693**
Levin, A. P., 748, **986**
Levin, E., 1395, **1458**
Levine, M., 790, **967**
Levine, R., 537, **113**
Levine, R. B., 452, **388**
Levine, V. E., 791, **1060**
Levinson, I., 270, **311**; 465, **96**
Levitz, M., 792, **680**
Levy, G. B., 1319, **1418**
Levy, H. R., 794, **928**
Levy, J. F., 743, **756**
Lewis, B. M., 298, **252**
Lewis, J., 196, **173**
Lewis, J. H., 151, **39**
Lewis, L. A., 320, **418**
Lewis, P. M., 939, **1346**
Ley, A. B., 903, **919**
Li, C. H., 628, **828**
Libet, B., 299, **128**
Licht, L., 265, **482**
Lieberman, S., 881, **1069**
Liebowitz, M., 187, **78**
Liener, I. E., 964, **800**; 1426, **1440**
Lilienthal, J. L., Jr., 300, **258**
Lilly, E. M., 1582, **3**
Lilly, J. C., 301, **240**
Lim, R. K. S., 331, **132**; 1047, **1255**
Lin, T., 267, **290**
Lind, A. H., 456, **324**
Lindberg, R. B., 1524, **1530**
Lindenblad. G. E., 856, **635**
Linder, J., 17, **448**
Lindsey, A. W., 213, **140**
Linfoot, J., 132, **254**
Ling, G., 302, **352**
Linker, A., 823, **1020**
Linscott, J. R., 303, **561**
Lipari, R., 1520, **1537**
Lipmann, F., 568, **613**; 751, **654**
Lippman, M. M., 227, **475**
Lippman, R. W., 304, **562**
Lipschitz, E., 1096, **1178**
Lipscomb, M. D., 938, **624**
Lipshitz, R., 615, **740**
Liss, M., 896, **976**
Liu, R., 1465, **1430**
Lobb, A. W., 410, **143**
Lobel, S., 1364, **1344**
Locke, L. A., 931, **656**
Loeb, L., 516, **371**
Loeser, C. N., 793, **689**
Loew, E. R., 1174, **1331**
Loewenstein, W. R., 305, **295**
Loewus, F. A., 794, **928**
Loftfield, R. B., 795, **880**
Lombardo, M. E., 796, **1061**
Long, C. N. H., 55, **110**
Longwell, B. B., 797, **627**
Loofbourrow, G. N., 306, **326**
Loomis, W. F., 798, **1052**
Lopez, G., 590, **1043**
Loran, M. R., 1175, **1104**
Loring, H. S., 907, **836**
Loring, J. M., 963, **1028**
Lotspeich, W. D., 307, **199**
Lotz, L. V., 1582, **3**
Louckes, H. S., 308, **287**
Love, R., 1525, **1560**
Loveless, M. H., 1526, **1595**
Lovell, F. W., 1268, **1268**
Lovelock, J. E., 272, **751**
Lowe, C. U., 1330, **1370**
Lu, F. C., 1176, **1179**
Lucas, C. C., 1004, **727**
Lucas, F. V., 839, **790**; 1373, **1377**
Luchsinger, W. W., 597, **759**; 799, **761**
Lüderitz, O., 1536, **1577**
Luduena, F. P., 1177, **1234**
Ludwig, G. D., 800, **700**
Luetscher, J. A., Jr., **710S**
Luft, U. C., 309, **268**
Luisada, A. A., 310, **93**
Lunan, K., 913, **1076**
Lushbaugh, C. C., 1331, **47**; 1358, **46**
Lutz, B. R., 35, **513**; 167, **MP, p. 492**
Luyet, B., 311, **426**
Lynes, T. E., 1135, **1122**
Lyman, C. M., 855, **911**; 1427, **1497**
Lyman, M. M., 1446, **1520**
Lyman, R., 1424, **1457**
Lynch, P. R., 356, **565**
Lynn, W. S., Jr., **825S**
Lyons, R., 174, **443**

Maassab, H., 1475, **1547**
MacDougall, I., 1216, **1200**
Machne, X., 312, **184**
Macht, D. I., 313, **563**; 1178, **1332**
Mackal, R. P., 801, **1604**
Mackenzie, C. G., 722, **730**
MacLeod, M. B., 181, **150**
MacLeod, R. A., 803, **906**
Mackler, B., 802, **703**
Macmillan, W. H., 1179, **1199**
MacVicar, R., 1420, **1504**
Madoff, M., 580, **1034**
Madsen, N. B., 804, **992**
Magee, D. F., 314, **292**
Magee, J. T., 492, **595**
Magee, M. Z., 679, **749**
Magnuson, W. E., 805, **1008**
Maher, F. T., 1332, **1154**
Mahler, H. R. 806, **646**
Mahoney, J. P., 1408, **1428**
Mahowald, T. A., 807, **719**
Maire, F. W., 315, **250**; 491, **412**
Majno, G., 808, **1063**
Malamud, N., 1105, **1129**
Maley, G. F., 809, **757**
Malmgren, R. A., 1333, **1407**
Maloney, M. A., 364, **422**
Maluf, N. S. R., 316, **98**; 1334, **1420**

Mandel, H. G., 973, **786**
Mandeles, S., 849, **968**
Mandl, I., 810, **955**
Manger, W. M., 317, **454**
Mann, F. D., 1335, **288**
Mann, K. M., 811, **623**
Mann, G. V., 1428, **9**
Mannering, G. J., 1180, **1223**
Manson, L. A., 812, **744**
Marcus, A., 669, **860**
Marcus, S., 1493, **1548**; 1504, **1541**; 1541, **1611**
Marcus, S. M., 1546, **1562**
Maren, T. H., 1181, **1279**
Margraf, H. W., 976, **208**
Mariani, H., 725, **1052**
Marinetti, G. V., 813, **1064**
Mark, L. C., 1182, **1243**
Markus, R. L., 1054, **1140**; 1112, **1192**
Marraccini, A., 30, **511**
Marsh, D. F., 1183, **1118**
Marsh, M. E., 713, **633**; 1429, **1494**
Marsh, P. V., 1014, **1299**
Marshall, L. M., 658, **1030**
Marshall, R., 318, **267**
Martin, A., 839, **790**
Martin, A. W., 224, **100**
Martin, C., 1170, **1383**; 1184, **1384**
Martin, D. H., 1193, **1217**
Martin, G. J., 581, **1399**
Martin, H. B., 449, **379**
Martin, J. T., 1185, **1333**
Martin, R. P., 814, **620**
Martin, S. P., 633, **1048**
Mason, H. C., 1527, **1557**
Mason, K. E., 1430, **1516**
Masoro, E. J., 319, **122**
Masson, G. M. C., 320, **418**
Matallana, A., 1186, **1252**
Mathews, M. B., 815, **1021**
Mathura, G. R., 983, **1147**
Matschiner, J. T., 816, **718**
Mattson, F. H., 1431, **1439**
Matzusaki, H., 1423, **1515**
Maurer, P. H., 1528, **1575**
Maurer, P. J., 1492, **1580**
Mauriello, G. E., 419, **485**
Mauris, C., 1480, **1553**
Mauro, A., 1578, **389**
Mayer, J., 1401, **1510**
Mayerson, H. S., 516, **371**
Maxwell, E. S., 932, **1080**
Mayaudon, J., 607, **762**
Mazelis, M., 817, **769**
Mazurkiewicz, I., 1191, **1271**
McCandless, E. L., 542, **2**
McCawley, E. L., 1254, **1101**
McCay, P. B., 321, **1283**
McClain, M. E., 1529, **1571**
McClendon, J. F., 1432, **1517**
McCormack, R. W., 1452, **5**
McCormick, D. B., 94, **522**
McCormick, W. G., 1126, **1261**; 1187; **1334**
McCowen, M. C., 1053, **1113**
McCulloh, E. F., 1187, **1334**
McDaniel, E. G., 1433, **1518**; 1434, **1498**
McDaniel, R., 209, **19**
McDonald, H. J., 923, **1078**; **709S**
McElroy, R. F., Jr., 1039, **341**; 1140, **366**
McElroy, W. D., 204, **545**; 1169, **1205**
McElroy, W. T., Jr., 277, **216**
McGanity, W. H., 1435, **1519**
McGarrahan, K., 602, **712**
McGill, H. C., Jr., 1316, **1382**; 1336, **1380**
McGinnis, A. J., 1436, **1451**
McIntire, F. C., 1239, **1197**
McIntosh, B. J., 1188, **1282**
McIntosh, H. D., 515, **413**
McIntyre, A. R., 514, **384**
McIntyre, R. T., 987, **954**
McKee, R. W., 958, **789**
McKenna, J. M., 544, **601**
McKennis, H., Jr., 1001, **1144**
McKinley-McKee, J. S., 554, **610**
McLain, B., 201, **256**
McLaren, A. D., 818, **926**
McManus, E. C., 1189, **1195**
McMenamin, J. W., 819, **962**
McMorris, C., 796, **1061**
McMurray, W. C., 588, **1042**
McNamara, B. P., 1204, **1169**
McNeil, C., 1530, **1600**
McNickle, C. M., 782, **865**
McQuarrie, D. G., 1190, **1239**
McRae, S. C., 629, **652**
McVaugh, R., 404, **189**
Mead, J. F., 927, **782**
Mehl, J. W., 926, **791**
Mehler, A. H., 820, **650**
Meinhart, J. O., 322, **856**
Meister, A., **606S**
Meites, J., 149, **536**; 323, **277**
Melampy, R. M., 127, **335**
Melcer, I., 1422, **1514**
Melchior, J. B., 1009, **1084B**
Mellette, H., 420, **251**
Mellors, R. C., 821, **1065**
Melnick, J. L., 1531, **1558**
Meltzer, H. L., 324, **888**
Melville, D. B., 822, **661**
Melville, K. I., 1191, **1271**
Melzack, R., 325, **186**
Mendeloff, A. I., 976, **208**
Mendelson, J., 204, **545**
Mendez, C., 330, **86**
Mendez, F. L., 1290, **1378**
Mendlowitz, M., 326, **456**
Meneely, G. R., 478, **392**
Meng, H. C., 120, **503**; 241, **18**
Mensendiek, R., 1104, **1181**
Merrick, A. W., 327, **279**
Merrill, J. M., 478, **392**
Mertz, E. T., 878, **797**; 1437, **1476**
Mertz, W., 1438, **1487**
Mettler, F. A., 328, **241**
Metz, B., 329, **323**
Metz, D. B., 545, **259**
Meyer, D. K., 445, **432**
Meyer, F., 859, **971**
Meyer, K., 823, **1020**
Meyer, M., 1455, **1433**
Meyers, F. H., 1061, **1263**; 1244, **1185**
Michel, H. O., 824, **987**
Migliarese, J. F., 825, **941**; 1289, **1411**
Mihalyi, E., 1016, **1267**
Mii, Sanae, 572, **695**
Milch, L. J., 1192, **12**
Milhorat, A. T., 355, **487**; 910, **638**; 1440, **1500**
Miller, B. F., 781, **1385**
Miller, C. D., 1439, **1432**
Miller, C. P., 1305, **1363**
Miller, E. C., 826, **1066**
Miller, I. H., 983, **1147**
Miller, J. A., 826, **1066**
Miller, J. W., 1193, **1217**
Miller, L. L., 604, **966**; **609S**
Miller, L. T., 1496, **1609**
Miller, O. N., 827, **725**; 1404, **1427**
Millican, R. C., 1194, **1335**
Millichap, J. G., 1195, **1088**
Mills, G. C., 829, **1148**
Mills, G. T., 828, **873**
Mills, R. C., 967, **694**
Milman, A. E., 355, **487**; 1440, **1500**
Milora, R., 1171, **1330**
Minnegan, D., 1287, **1355**
Minz, B., 1196, **1336**
Mistry, S. P., 1441, **1471**
Mitchell, C., 1151, **1218**; 1281, **1219**
Mitchell, S., 47, **218**
Mithoefer, J. C., 1152, **1220**
Miyake, A., 859, **971**
Modell, W., 1197, **1278**
Moe, G., 330, **86**
Moe, J. G., 617, **943**
Moeller, H. C., 209, **19**
Moffitt, R. L., 331, **132**
Mogabgab, W. J., 1532, **1548**
Mohammad-Abadi, D., 1382, **1481**
Mohandes, A. E., 1442, **1454**
Mollura, J. L., 332, **564**
Molnar, G. W., 333, **125**
Monie, I. W., 1380, **1465**
Monder, C., 969, **691**
Monk, A., 16, **269**
Monroe, C. W., 1282, **1406**
Monsour, V., 830, **1067**
Monto, R. W., 1337, **29**
Montoya, J. A., 1498, **1606**
Moor, J. R., 1383, **1434**; 1384, **1508**
Moore, A. R., 334, **476**
Moore, J. W., 335, **350**
Moore, S., 640, **747**; 941, **1001**
Morehouse, M. G., 831, **773**
Morel, F., 916, **958**
Moreland, F. B., 1338, **1371**
Morgan, A. F., 610, **963**; 1377, **1464**
Morgan, H. E., 336, **1022**
Morgan, J. F., 832, **658**
Morin, F., 173, **181**; 337, **178**
Morita, T. N., 836, **864**
Moritz, A. R., 1351, **74**
Morken, D., 1094, **1115**
Morris, G., 1198, **1294**; 1228, **1215**
Morris, H. P., 1300, **1375**
Morris, L. E., 1101, **1235**
Morris, R. W., 1199, **1206**
Morrison, A. B., 900, **1006**
Morrison, J. L., 1234, **1145**
Morrison, M., 833, **922**
Morrow, P. E., 1200, **1150**
Morton, H. J., 832, **658**
Morton, J. M., 352, **377**
Mosbach, E. H., 1201, **1023**; 1490, **716**
Moses, L., 338, **330**
Moskowitz, M., 1533, **1578**
Moskowitz, M. S., 1339, **15**
Moss, W. G., 339, **124**; 395, **304**; 522, **225**
Mothon, S., 620, **662**
Motley, H. L., 340, **322**
Mountain, I. M., 1553, **1559**
Mounter, L. A., 834, **989**
Moyer, J. H., 1098, **1277**; 1198, **1294**; 1202, **1162**
Muehlenbeck, H. E., 1280, **1214**
Mueller, A. J., 639, **934**
Mueller, L. F., 1012, **1151**
Muirhead, E. E., 341, **425**
Mukomela, A. E., 1072, **1310**; 1153, **1221**
Mule, F., 1512, **1563**
Müller, O. H., 342, **815**

Mullins, L. J., 343, **294**
Mulrow, P. J., 344, **202**
Mundy, R. L., 1203, **1253**
Munoz, J., 1534, **1597**
Munsey, F. A., 838, **935**
Muntz, J. A., 835, **867**
Murayama, M., 1583, **924**
Murphy, J. R., 835, **867**
Murphy, W. H., 1535, **1568**
Murphy, W. R., 109, **105**
Murray, C. W., 1036, **1111**
Murray, J. E., 781, **1385**
Murray, T. K., 1443, **1506**
Murtha, E. F., 1204, **1169**
Musacchia, X. J., 345, **480**
Myrvik, Q., 1563, **1528**

Naber, E. C., 1444, **1491**
Nadel, E., 1340, **1421**
Nagler, M. E., 1031, **1284**
Nagumo, M., 1424, **1457**
Nahum, L. H., 1578, **389**
Najjar, V. A., 621, **1045**
Nakada, H. I., 836, **864**
Namajuska, I., 586, **1296**
Narahara, H. T., 1361, **957**
Nash, A. A., 410, **143**
Nash, C. B., 1205, **1337**
Nash, J. B., 1017, **1297**; 1088, **1314**
Nason, A., 837, **855**
Natelson, S., 838, **935**
Nathan, P., 346, **496**
Naylor, I., 1477, **1599**
Neatrour, R., 1392, **1470**
Neil, C. M., 347, **119**
Neilands, J. B., 702, **920**
Nelson, C. V., 348, **386**
Nelson, E. L., 1562, **1540**
Nelson, M. M., 1380, **1465**; 1396, **1482**; 1445, **1450**; 1461, **1480**; 1473, **1525**
Nelson, N. A., 1362, **933**
Nelson, T. S., 1453, **1502**
Nelson, W. O., 1093, **1315**
Neri, R., 139, **532**
Neter, E., 1536, **1577**
Netrosio, M., 501, **414**
Neubecker, R. D., 1373, **1377**
Neufeld, H. A., 839, **790**
Neuman, W. F., 840, **1013**; 1200, **1150**
Neurath, H., 841, **798**
Newburgh, R. W., 1436, **1451**
Newell, M. P., 866, **1146**
Newman, L. H., 658, **1030**
Ngai, S. H., 214, **319**; 1182, **1243**
Nichol, C. A., 1007, **629**
Nicholas, H. J., 842, **1345**
Nichopoulos, G. C., 25, **369**
Nick, R. T., 1012, **1151**
Niesler, V., 1143, **1231**
Nishikawara, M. T., 1571, **163**
Noble, N. L., 843, **752**
Noda, L., 844, **945**
Noell, W. K., 349, **299**
Nomof, N., 524, **365**
Norman, T. D., 1341, **1408**
Norris, L. C., 900, **1006**; 1453, **1502**
Norris, M. E., 803, **906**
Northup, D. W., 475, **589**
Norton, P., 618, **999**; 1458, **1521**; 1459, **1488**
Norton, S., 1207, **1198**
Notrica, S. R., 780, **1059**
Nuland, S., 1578, **389**
Numerof, P., 1452, **5**
Nufingesser, W. C., 350, **221**
Nye, S. W., 179, **317**
Nyman, M., 526, **10**

Oberst, F. W., 1208, **1172**
Ochoa, S., 716, **984**
Ochs, S., 502, **447**
O'Connell, P. W., 811, **623**
O'Dell, T. B., 1209, **1155**
Odell, T. T., Jr., 1363, **1405**
Oestreich, H. M., 344, **202**
Ogden, E., 351, **141**
Ogilvie, C. M., 352, **377**
Ohashi, S., 1160, **1329**
Ohno, S., 1323, **1388**
Oikemus, A. H., 1211, **1139**
Okabe, K., 1524, **1530**
Okey, R., 1446, **1520**
Okita, G. T., 1210, **1233**
Okuda, K., 1388, **1473**
O'Leary, J. F., 1211, **1139**
Oleksyshyn, N. L., 144, **534**
Olmsted, C. A., 121, **338**
Olsen, N. S., 353, **435**
Olson, K. C., 1133, **44**
Olson, M. E., 862, **881**
Olson, R. E., 668, **746**; 1447, **1485**
Olwin, J. H., 770, **30**
Omachi, A., 354, **434**
O'Neal, J. D., 444, **272**
O'Neill, G. Q., 41, **152**
O'Neill, J. J., 845, **951**
Ono, J., 1370, **1353**
Oppenheimer, H., 355, **487**
Oppenheimer, M. J., 356, **565**
Orcutt, J. A., 1213, **1161**
Orioli, F. L., 328, **241**
Oro, J., 1231, **733**
Orten, A. U., 1448, **1431**
Orten, J. M., 696, **1049**; 1422, **1514**
Orth, O. S., 1214, **1338**
Ortiz, L. O., 1400, **1447**
Orto, L., 551, **1038**
Orvis, A. L., 389, **291**
Osgood, E. E., 871, **690**
Osler, A. G., 1537, **1612**
Otis, A. B., 146, **265**
Otken, C. C., 822, **661**
Ott, M. G., 919, **900**
Otto, H., 1584, **1273**
Owen, C. A., Jr., 97, **421**; **707S**
Owen, F. B., Jr., 1215, **1116**
Oyen, I. H., 357, **103**

Pace, N., 358, **566**; 505, **376**
Palade, G. E., 846, **685**
Paldino, R. L., 251, **396**
Pallavicini, C., 203, **441**
Palm, L., 209, **19**
Panagos, S. S., 319, **122**
Panos, C., 738, **890**
Panos, T. C., 359, **470**; 1459, **1488**
Papacostas, C. A., 1174, **1331**
Pappenheimer, A. M., Jr., **1535**
Pappenheimer, J. R., 360, **95**
Papper, E. M., 1182, **1243**
Paradise, R. R., 1232, **1160**
Pardee, A. B., 847, **737**
Park, C. R., 336, **1022**
Parker, J. M., 1216, **1200**
Parkins, W. M., 361, **567**
Parpart, A. K., 238, **427**
Partin, H. C., 395, **304**
Partridge, L. D., 362, **400**
Parventjev, I. A., 1538, **1598**
Paschkis, K. E., 363, **213**; 77, **108**
Paton, B., 1042, **1109**
Patt, H. M., 364, **422**
Patterson, J. L., Jr., 198, **296**
Paul, W. D., 885, **1260**
Pazur, J. H., 848, **874**
Pearson, H. E., 1539, **1569**
Pearson, P. B., 959, **1082**
Peck, H. M., 1342, **1379**
Peiss, C. N., 365, **116**
Pen, F., 1439, **1432**
Penefsky, H. N., 1494, **1585**
Penick, G. D., 1343, **24**
Penn, N., 849, **968**
Penniall, R., 838, **935**
Peoples, S. A., 1034, **1103**; 1217, **1102**
Perdue, H. S., 1402, **1443**
Perel, J., 1042, **1109**
Perjins, J. F., Jr., 366, **568**; 367, **321**; **420P**
Perl, E. R., 368, **129**
Perlman, P. L., 1218, **1153**
Perry, H. M., Jr., 369, **457**; 435, **416**
Person, R. G., 1024, **1301**
Pesek, I., 1465, **1430**
Peters, L., 1219, **1276**
Peters, T., 1344, **1009**
Petersen, D. F., 1081, **131**; 1220, **70**
Peterson, L., 294, **410**
Peterson, L. H., 370, **460**; 448, **579**
Peterson, R. D., 850, **1032**
Pfeiffer, C. C., 1146, **1085**; 1221, **1086**
Phillipps, M., 569, **783**
Phillips, H. J., 371, **158**
Phillips, R., Jr., 191, **543**
Pick, R., 270, **311**; 372, **13**; 466, **585**
Picken, J. C., Jr., 575, **814**
Pickering, R. W., 1222, **1292**
Pilgeram, L., **708S**
Pillemer, L., 1351, **74**; 1560, **1539**
Pincus, G., 373, **332**
Pincus, I. J., 374, **278**
Pindell, M. H., 1223, **1188**
Pinkerton, H., 1307, **51**
Pipkin, G. E., 1472, **1492**
Pirani, C. L., 1292, **1402**
Pitt, B. M., 851, **1002**
Pittinger, C. B., 1224, **1222**
Pitts, F. R., **420P**
Pitts, R. F., 375, **151**
Pizer, L., 638, **947**
Plaa, G. L., 1225, **1238**
Platner, W. S., 70, **518**
Plaut, G. W. E., 852, **617**
Plotnikoff, N. P., 1226, **1107**
Plotz, E. J., 1210, **1233**
Plough, E., 259, **478**
Podolsky, R. J., 376, **491**
Pogell, B. M., 1227, **1369**
Pogrund, R. S., 377, **664**
Poley, G. W., 1275, **1133**
Pollard, C. J., 1138, **1323**
Pollard, M., 1345, **1359**
Pon, H., 1176, **1179**
Pontius, R., 1198, **1294**; 1228, **1215**
Porter, G. A., 1119, **1320**
Porter, J. C., 378, **112**
Porter, K. R., **JS, p. 492**

Post, R. L., 336, **1022**; 853, **837**
Potter, V. R., 549, **1037**
Potts, A. M., 379, **300**
Power, M. H., **705S**
Powers, E. L., 1307, **51**
Pradhan, S. N., 1229, **1266**
Praglin, J., 379, **300**
Pratt, A. J., 291, **559**
Pratt, E. B., 506, **35**
Pratt, E. L., 618, **999**; 1459, **1483**
Preiss, J., 858, **1067A**
Prescott, J. M., 762, **850**; 855, **911**
Pressman, D., 821, **1065**
Prestidge, L. S., 847, **737**
Price, J. M., 856, **635**
Price, T. D., 857, **1068**
Pricer, W. E., Jr., 861, **851**
Prier, J. E., 1514, **1550**
Proctor, D. F., 86, **264**; 146, **265**
Prouty, R. R., 1293, **1390**
Pruzansky, J., 1379, **1466**
Puetzer, B., 1319, **1418**
Putnam, F. W., 859, **971**

Quayle, R., 607, **762**
Queen, F. B., **1395P**
Quick, A. J., 860, **43**
Quigley, J. P., 308, **287**
Quilliam, T. A., 380, **358**
Quiros S., C., 1498, **1606**

Raab, W., 381, **87**
Rabinovitz, M., 862, **881**
Rabinowitz, J. C., 861, **851**
Rabinowitz, J. L., **820S**
Racker, E., 924, **948**
Rader, D., 1559, **1566**
Radin, N. S., 863, **891**
Rafter, G. W., 864, **931**
Rahal, J., 439, **832**
Rahn, H., 382, **320**
Rall, D. P., 1230, **1189**
Rall, T., 935, **996**
Ralston, D. J., 1540, **1605**
Rambo, F. R., 1541, **1611**
Ramey, E. R., 189, **235**; 383, **467**
Ramsey, R. W., 384, **569**
Randall, C. C., 1346, **1360**; 1347, **1422**
Randall, W. C., 365, **116**; 402, **88**
Ranney, R. E., 385, **492**
Rao, M. R. R., 865, **1029**
Rapatz, G. L., 345, **430**
Rapoport, H., 1259, **1108**
Rappaport, I., 1542, **1587**
Rappoport, D. A., 1231, **733**
Rapport, D., 386, **570**
Rapport, M. M., 688, **894**
Rasmussen, A. F., Jr., 1543, **1561**
Rasmussen, T. B., 1311, **48**; 1322, **49**
Rau, G. C., 1232, **1160**
Ravel, J. M., 631, **1047**
Ray, F. E., 866, **1146**
Rayson, G. E., 423, **378**
Read, W. L., 103, **190**
Rebuck, J. W., 1348, **1364**
Recknagel, R. O., 867, **625**
Redfield, R. R., 868, **827**
Redlich-Moshin, J., 1562, **1540**
Reed, E. A., 479, **590**
Reger, J. L., 631, **1047**
Rehm, W. S., 15, **282**; 387, **347**
Reid, A. F., 501, **414**
Reid, B. L. 637, **631**
Reid, M. E., 1449, **1436**
Reif, A. E., 797, **627**
Reife, A., 719, **1018**
Reiner, I. B., 395, **304**
Reinhard, J. F., 1233, **1159**
Reinhardt, W. O., 388, **571**
Reiser, R., 653, **886**
Reiss, O. K., 869, **619**
Reitemeier, R. J., 389, **291**
Remington, J. W., 390, **461**
Remp, D. G., 573, **750**
Remy, C. N., 870, **643**
Renkin, E. M., 391, **222**
Retzlaff, E., 392, **402**
Reynard, A. M., 799, **761**
Reynolds, M. S., 1417, **1490**
Reynolds, O. E., **420P**
Reynolds, T. B., 200, **544**
Reynolds, V. H., 951, **870**
Rice, L. G., 1065, **1208**
Rice, M. E., 1314, **1417**
Richards, D. W., Jr., 164, **318**
Richards, G. G., 1279, **1091**
Richardson, A. B., 1234, **1145**
Richardson, O., 1224, **1222**
Richert, D. A., 870, **643**
Richmond, C. R., 145, **167**
Richter, M., 1547, **1596**
Rieben, A., 415, **261**
Rieck, A. F., 393, **64**
Rieders, F., 1235, **1136**
Riegl, M., 1447, **1485**
Rieser, P., 519, **192**
Rigas, D. A., 871, **690**
Rigdon, R. H., 1349, **1361**; 1398, **1472**
Riggs, A., 990, **923**
Riggs, T. R., 620, **662**
Riley, R. L., 449, **379**
Rinehart, J. F., 713, **633**; 1350, **1387**; 1429, **1494**
Rinfret, A. P., 394, **161**
Ring, G. C., 395, **304**
Ringler, R. L., 606, **723**
Rittenberg, D., 872, **616**
Robb, J. S., 396, **92**; 397, **572**
Robbins, D. J., 1015, **1137**; 1236, **1112**
Roberts, D., 694, **982**
Roberts, E., 873, **1004**
Roberts, G. 698, **682**
Roberts, H. P., 1343, **24**
Roberts, J. M., 634, **626**
Roberts, S., 487, **328**; 788, **959**
Robertson, J. D., 1237, **359**
Robertson, J. S., 46, **59**
Robinson, T. W.. 260, **553**
Robinson, W. D., 878A, **1068A**
Robinson, W. G., 874, **949**
Roca-Garcia, M., 1525, **1560**
Rockenbach, J., 594, **52**
Rodbard, S., 398, **90**; 399, **573**
Rodnan, G. P., 875, **944**
Roeder, K. D., 400, **403**
Rogers, D., 876, **908**
Rogers, E. B., 13, **361**
Rogers, T. A., 401, **236**
Rohse, W. G., 402, **88**
Roitman, E., 796, **1061**
Rolfe, B. L., 403, **574**
Rolfe, D. T., 72, **504**; 403, **574**
Rollins, L. T., 1279, **1091**
Roma, M., 550, **494**
Roman, I.-N., 247, **197**; 405, **196**
Romans, W. E., 58, **385**
Rondell, P. A., 404, **189**
Rongone, E. L., 877, **621**
Ronwin, E., 878, **797**
Root, W. S., 7, **360**
Rosa, E. C., 895, **1074**
Rose, B., 1547, **1596**
Rose, H., 202, **231**
Rose, N. R., 1544, **1538**
Roseman, S., 740, **1056**; 878A, **1068A**
Rosemberg, E., 724, **622**
Rosen, S., 183, **1474**; 184, **541**
Rosenfeld, M., 1238, **40**
Rosenfeld, R. S., 879, **717**
Rosenfeld, S., 1217, **1102**
Rosenthal, O., 880, **687**
Rosenthal, S. R., 247, **197**; 405, **196**
Rosomoff, H. L., 406, **449**
Ross, B. B., 407, **325**
Ross, J., 1344, **1009**
Ross, O. A., 1351, **74**
Rosselet, J.-P., 881, **1069**
Rossi, F. M., 917, **1031**
Roth, J. S., 882, **1070**
Roth, K. L., 883, **1581**
Roth, L. W., 1239, **1197**
Rotherham, J., 884, **1071**
Rothstein, A., 408, **433**
Routh, J. I., 885, **1260**
Rowland, L. P., 274, **450**; 460, **451**
Roy, A., 1372, **1423**
Royal, W., 1556, **1613**
Rubler, S., 208, **458**; 527, **229**
Ruch, T. C., 420P
Ruck, P. R., 409, **298**
Rudney, H., **819S**
Rudolph, G. G., 353, **435**
Ruegamer, W. R., 886, **960**
Rumsfeld, H. W., Jr., 887, **938**
Rupp, J. J., 590, **1043**
Rushmer, R. F., 410, **143**
Ruskin, H. D., 50, **148**
Russell, J. A., **608S**
Russell, P. J., Jr., 690, **738**
Russo, H. F., 41, **152**
Russum, B. C., 417, **395**
Rust, A. C., 772, **985**
Ruth, J. M., 1043, **1240**
Rutherford, E. B., 1450, **1478**
Rutledge, L. T., Jr., 411, **243**
Rutman, J. Z., 374, **278**
Rutman, R. J., 227, **475**
Ryan, A. H., 412, **1229**
Ryan, A. R., 412, **1229**
Ryzoff, R. I., 456, **324**

Saba, N., **824S**
Sabiston, D. C., 413, **462**
Sachs, B. A., 527, **229**
Sacks, J., 414, **734**
Sacks, M. S., 557, **1039**
Sadler, P. E., 1240, **374**
Sadoul, P., 382, **320**
Sahyun, M., 1088, **1314**
Sakami, W., 649, **724**
Salhanick, H. A., 263, **329**
Salisbury, P. F., 415, **261**
Saltman, P., 888, **1010**
Salvin, S. B., 1545, **1608**
Salzman, E. W., 416, **MP p. 492**
Samachson, J., 918, **1012**

Samaras, S. C., 417, **325**
Samson, F. E., Jr., 418, **280**
Samuels, L. T., 1468, **1446**
Sanadi, D. R., 747, **758**
Sandberg, A. A., 985, **673**
Sandow, A., 419, **485**
Sapirstein, L. A., 69, **517**; 420, **251**
Sarett, H. P., 1451, **1455**
Sarnoff, S. J., 421, **411**
Sass, R. N., 791, **1060**
Saunders, D. H., 1320, **1441**
Saunders, J. P., 1133, **44**; 1241, **1339**
Savard, K., 565, **679**
Sawyer, C. H., 102, **159**
Sawyer, W. H., 422, **575**
Saxton, G. A., Jr., 423, **378**
Sayers, G., 424, **164**
Sayre, F. W., 889, **950**
Schabel, F. M., Jr., 601, **784**
Schaefer, A. E., 1406, **1467**; 1452, **5**
Schaefer, K. E., 78, **445**; 258, **436**; 425, **212**
Schaffer, F. L., 890, **841**
Schaffer, N. K., 891, **1072**
Schanker, L. S., 1180, **1223**
Schantz, E. J., 593, **842**
Schapiro, H., 426, **288**
Schayer, R. W., 892, **1073**
Schein, A. H., 893, **973**
Schenk. E. A., 1242, **1173**
Scher, A. M., 427, **382**
Scheraga, H. A., 894, **803**
Scherrer, H., 228, **131**; 229, **547**; 428, **135**
Schiffman, D. O., 1243, **1117**; 1261, **1090**
Schilling, E. D., 564, **671**
Schlotterer, P. G., 1342, **1379**
Schmid, H. E., 429, **415**
Schmid, K., 895, **1074**
Schmid, R., 905, **915**
Schmidt, F., 1425, **1489**
Schmidt, G., 896, **976**
Schmidt, R. P., 513, **245**
Schmidt-Nielsen, B., 430, **205**; 431, **576**
Schmidt-Nielsen K., 430, **205**; 431, **576**
Schmitt, G. H., 1061, **1263**; 1244, **1185**
Schmitt, O. H., 432, **387**; 452, **388**
Schneyer, L. H., 433, **348**
Schoenleber, F., 1465, **1430**
Schoepfle, G. M., 434, **351**
Schottelius, D. D., 884, **1071**
Schroeder, H. A., 435, **416**
Schroeder, M. A., 1369, **6**
Schuchardt, L. F., 1534, **1597**
Schueler, F. W., 1245, **1249**
Schulman, A., 115, **527**
Schulman, M. P., 493, **237**; 897, **916**
Schutz, H. G., 1246, **1158**
Schultz, J., 436, **876**
Schwartz, I. L., 437, **206**
Schwartz, P. L., 369, **457**
Schwartz, S., **706S**
Schwartzman, G. 1546, **1562**
Schwarz, K., 617, **943**; 875, **944**; 1438, **1487**
Schwarzacher, H. G., 438, **357**
Schweet, R., 898, **879**
Schweigert, B. S., 659, **833**; 1411, **1469**
Schweiker, C. E., 1421, **1456**
Schweitzer, A., 1352, **1392**
Schwenk, E., **818S**
Schwerdt, C. E., 890, **841**
Schwimmer, S., 899, **994**
Scott, J. C., 479, **590**
Scott, J. F., 439, **832**
Scott, K., 243, **363**
Scott, M. E., 374, **278**
Scott, M. L., 900, **1006**; 1453, **1502**
Scriabine, A., 1143, **1231**
Scrimshaw, N. S., 1454, **1426**; 1460, **1499**
Seager, L. D., 1025, **1157**; 1247, **1269**
Seaman, G. R., 440, **858**
Searcy, R. L., 831, **773**
Sears, D. F., 150, **1225**
Sebrell, W. H., Jr., 1434, **1498**
Seeberg, V. P., 1137, **1096**; 1248, **1095**
Seegal, B. C., 1288, **1404**
Seegers, W. H., 901, **31**
Seevers, M. H., 1134, **1182**
Segundo, J. P., 312, **184**
Sehon, A. H., 1547, **1596**
Seidman, R., 1547, **1596**
Selin, M. J., 1370, **1353**
Selkurt, E. E., 441, **262**
Selye, H., 442, **577**
Semple, R. E., 443, **364**; 1041, **224**
Sendroy J., Jr., 444 **272**; 902, **1075**
Seneca, H., 1353, **1354**
Seppala, R. M., 740, **1056**
Seraydarian, K., 896, **976**
Serlin, I., 1294, **641**
Sexton, A. W., 445, **432**
Seymour, P. H., 46, **59**
Shannon, J. R., 1249, **1295**
Shapiro, H., 446, **578**
Shapiro, J., 382, **320**
Share, L., 447, **166**
Sharpe, L. M., 903, **919**
Sharpensteen, H. H., 701, **859**
Shaw, E., 994, **452**
Shaw, J. H., 1455, **1433**
Shaw, K. N. F., 559, **998**
Shay, H., 436, **876**
Shear, H. H., 1312, **1356**; 1354, **1357**
Shear, M. J., 1229, **1266**
Sheatz, G. C., 1163, **1166**
Sheehan, J. C., 731, **806**
Sheffner, A. L., 904, **936**
Shelata, S., 571, **942**
Shellhamer, R. H., 1505, **1574**
Shelton, M., 47, **218**
Shemin, D., 905, **915**
Shepard, C. C., 1548, **1529**
Shepard, R. B., 370, **460**; 448, **579**
Shepard, R. H., 449, **379**
Sheppard, M., Jr., 976, **208**
Sherman, F. G., 450, **71**
Sherman, I. R., 906, **794**
Sherrod, T. R., 1250, **1226**
Shibata, K., 574, **765**
Shideman, F. E., 1180, **1223**; 1256, **1241**; 1277, **1242**
Shimomura, M., 907, **836**
Shipley, R. A., 20, **273**
Shive, W., 631, **1047**
Shock, N. W., 49, **146**
Shonk, C. E., 596, **669**
Shore, M. L., 542, **2**
Shorr, E., 19, **510**
Shreeve, W. W., 125, **156**
Shuey, H. E., 1480, **1553**
Shulman, S., 908, **33**
Shuman, C. R., 1375, **1424**
Shurtliff, L. F., 1095, **1274**
Sicé, J., 1355, **399**
Sichel, F. J. M., 451, **580**
Sie, H.-G., 680, **674**
Siebecker, K. L., 1240, **374**
Siegel, J. M., 909, **903**
Siegel, M., 821, **1065**
Siegel, S. M., 701, **859**
Siekevitz, P., 846, **685**
Sigg, E. B., 1, **444**
Silverman, M. S., 1549, **53**
Silverstein, A. M., 1491, **1591**; 1550, **1570**
Sime, J. T., 1456, **1501**
Simon, E. J., 910, **638**
Simonson, E., 452, **388**
Simpson, G. L., 1532, **1548**
Simpson, M. E., 138, **104**; 1461, **1480**; 1473, **1525**
Simpson, M. R., 1050, **1413**
Singer, F. M., 911, **1152**
Singer, S., 734, **668**
Singer, T. P., 912, **696**
Singh, B. P., 16, **269**
Sinsheimer, R. L., 913, **1076**
Siperstein, M. D., 914, **720**; **823S**
Sivertson, S. E., 453, **271**
Sizer, I. W., 207, **702**
Skellenger, M., 1425, **1489**
Skelton, F. R., 1356, **1381**
Skinner, S. M., 20, **273**
Skipper, H. E., 601, **784**
Skipski, W. P., 831, **773**
Slade, H. D., 1551, **1527**
Slanetz, C. A., 1319, **1418**; 1320, **1441**
Slater, I. H., 1251, **1244**
Slaton, W. H., 927, **782**
Sloane, N. H., 915, **728**
Slocum, A., 1406, **1467**
Slovik, N., 918, **1012**
Sloviter, H. A., 916, **958**
Smith, A. A., 909, **903**
Smith, A. H., 1448, **1431**
Smith, A. H., Jr., 1090, **1094**; 1266, **1093**
Smith, B., 915, **728**
Smith, C. A., 112, **297**
Smith, C. W., 454, **211**
Smith, D. C., 1482, **1567**
Smith, D. J., 455, **380**
Smith, D. L., 105, **191**; 1155, **1265**
Smith, E. E. B., 828, **873**
Smith, E. L., 733, **795**
Smith, F. D., Jr., 1210, **1233**
Smith, J. A., 456, **324**
Smith, J. D., 1223, **1188**
Smith, J. M., 1457, **1425**
Smith, L. C., 917, **1031**
Smith, L. H., 457, **581**
Smith, L. W., 1485, **55**
Smith, N., 1230, **1189**
Smith, P. E., Jr., 63, **407**
Smith, P. K., 1252, **1099**
Smith, P. W., 1253, **1230**
Smith, R. B., III, 66, **515**
Smith, R. T., 1552, **1534**
Smyth, F. S., Jr., 1254, **1101**
Snell, E. E., 762, **850**
Snider, R. S., 458, **582**
Snider, Y., 845, **951**
Snipper, L. P., 1451, **1455**
Snyder, F., 636, **771**
Snyder, F. F., 459, **583**
Snyder, R. A., 74, **171**
Snyderman, S. E., 1458, **1521**; 1459, **1488**
Sobel, A. E., 918, **1012**
Sokoloff, L., 274, **450**; 298, **252**; 460, **451**
Sommer, E. M., 1255, **1259**
Sommers, S. C., 1357, **1365**
Sorof, S., 919, **900**
Sossen, R., 386, **570**
Souders, H. J., 461, **331**
Soules, K. H., 1369, **6**
Spalding, J. F., 1358, **46**

Spar, I. L., 192, **391**; 462, **54**
Spector, E., 1256, **1241**; 1277, **1242**
Spector, H., 904, **936**; 1386, **1448**
Spector, L., 751, **654**
Spencer, R. P., 676, **1000**
Sperry, W. M., 920, **889**
Speyer, J. F., 921, **611**
Spiegel-Adolf, M., 922, **1077**
Spiegel, E. A., 463, **584**
Spiegelman, S., **1288S**
Spitzer, J. J., 464, **17**
Spitzer, R. H., 923, **1078**
Spivack, M. L., 1516, **1532**
Sproul, E. E., 1299, **1350**
Sprunt, K., 1553, **1559**
Spruth, H. C., 1402, **1443**
Spurr, C., 1098, **1277**
Spurr, G. B., 1575, **176**
Squibb, R. L., 1460, **1499**
Srebnik, H. H., 1461, **1480**
Srere, P. A., 924, **948**
Srikantia, S. G., 19, **510**
Stainsby, W. N., 300, **258**
Stamler, F. W., 1359, **1348**
Stamler, J., 372, **13**; 465, **96**; 466, **585**
Stannard, J. N., 467, **63**
Staple, E., **825S**
Stasney, J., 77, **108**
Statler, J., 1316, **1382**
Stauffer, H. M., 468, **586**
Stavinoha, W B., 1257, **1340**
Steele, J. M., 1042, **1109**
Steele, R., 925, **114**
Steers, E., 993, **853**
Stefanini, M., 469, **587**
Steggerda, F. R., 470, **230**
Stein, A. M., 926, **791**
Stein, W. H., 640, **747**; 941, **1001**
Steinberg, G., 927, **782**
Steinberger, W. W., 471, **588**
Steiner, R. F., 472, **393**
Steinhaus, J. E., 1046, **1236**
Stekol, J. A., 928, **659**
Stent, G. S., 929, **745**
Stephanson, L., 184, **541**
Stephenson, N. R., 1258, **162**
Sternberger, L. A., 1554, **1589**
Stevens, A. L., 649, **724**
Stevens, V. L., 660, **839**
Stevenson, A., 1254, **1101**
Stevenson, G. W., 1259, **1108**
Stewart, B., 1447, **1485**
Stewart, E., 473, **481**
Stewart, G. H., III, 468, **586**
Stewart, M. T., 1508, **1551**
St. George, S., 474, **394**
Stickney, J. C., 475, **589**
Stickney. J. M., 97, **421**
Stimmel, B. F., 930, **1079**
Stoerk, H. C., 596, **669**
Stolberg, M., 845, **951**
Stoll, A. M., 476, **117**
Stone, D., 34, **168**; 477, **678**
Stone, J. L., 478, **392**
Stoner, R. D., 1367, **1366**
Storey, C. F., 193, **305**
Stotz, E., 839, **790**
Stowell, R. E., **1367P**
Strang, R., 1168, **1403**
Strassman, M., 931, **656**
Strehler, B., 675, **767**
Stroebel, C. F., 97, **421**
Strohmeyer, F. B., 783, **165**
Strolis, J. A., 479, **590**
Strominger, J. L., 932, **1090**
Strong, F. M., 564, **671**
Strong, J. P., 1308, **1**
Stroud, A. N., 480, **67**
Stumpf, P. K., 817, **769**
Stutts, A. L., 855, **911**
Stutz, R. E., 933, **770A**
Subit, I., 170, **540**
Sullivan, M. A., 619, **913**
Sunde, M. L., 1462, **1479**
Sunder, J. H., 45, **367**
Sunderman, F. W., 934, **1143**
Sure, B., 1463, **1484**; 1464, **1522**
Sutherland, D. A., 341, **425**
Sutherland, E. W., 935, **996**
Sutherland, G. B., 481, **233**
Sutherland, V. C., 1161, **1212**; 1260, **1211**
Sutin, J., 482, **591**
Sutton, W. B., 936, **642**
Swann, H. G., 483, **97**
Swanson, E. E., 1251, **1244**
Swanson, M. A., 937, **760**
Swanson, P., 1465, **1430**; 1474, **1526**
Swanson, R. E., 484, **102**
Sweat, M. L., 938, **624**
Swendseid, M. E., 939, **1346**
Swerdlow, M., 1096, **1178**
Swern, D., 1320, **1441**
Swick, R. W., 485, **739**
Swingle, W. W., 486, **592**
Swinyard, E. A., 1243, **1117**; 1261, **1090**; 1264, **1087**
Sydow, V. L., 1262, **1290**
Syverton, J. T., 1535, **1568**
Szego, C. M., 487, **328**; 488, **593**
Szekely, E. G., 463, **584**

Tabachnick, J., 1365, **1398**; 1555, **838**
Tabachnik, M., 858, **1067A**; 940, **831**; 1494, **1585**
Tahara, D. M., 485, **739**
Tallan, H. H., 941, **1001**
Talmage, R. V. 281, **157**; 489, **594**; 490, **336**
Talman, E. L., 779, **914**; 1263, **1149**
Tanaka, T., 1323, **1388**
Tanenbaum, S. W., 942, **904**
Tang, P. C., 491, **412**; 1242, **1173**
Tanyol, H., 492, **595**
Tarleton, G. J. 1556, **1613**
Tarlov, I. M., 176, **127**
Tarr, H. L. A., 943, **990**
Tarrow, A. B., 1185, **1333**
Tarver, H., 944, **875**
Tasaki, I., 112, **297**
Tatum, E. L., 715, **847**
Tausig, T., 1221, **1086**
Taylor, A. N., 321, **1283**
Taylor, C. B., 1360, **7**
Taylor, C. E. D., 511, **36**
Taylor, H. L., 75, **472**
Taylor, J. L., Jr., 497, **446**
Tazuma, J. J., 1321, **1142**
Tedeschi, D. H., 1264, **1087**
Teitlebaum, S., 369, **457**
Tepperman, H. M., 493, **237**
Tepperman, J., 493, **237**; 1102, **1114**; **420P**
Terres, G., 1557, **1576**; 1569, **424**
Terzuolo, C., 178, **130**
Thannhauser, S. J., 896, **976**
Thatcher, L. D., 1195, **1088**
Thayer, S. A., 807, **719**
Thaysen, J. H., 437, **206**
Thigpen, D., 1234, **1145**
Thomas, A. J., 931, **656**
Thomas, L., 1552, **1534**
Thomas, L. B., 513, **245**
Thomas, L. M., 173, **181**
Thompson, E., 1503, **1414**
Thomson, J. R., 601, **784**
Thorn, N. A., 437, **206**
Thull, N. B., 387, **347**
Tidwell, H. C., 945, **774**
Timiras, P. S., 1265, **1092**; 1279, **1091**
Tobian, L., 946, **1262**
Tobias, J. M., 68, **516**
Tocantins, L. M., 523, **42**
Todd, E. W., 1351, **74**
Toennies, G., 953, **21**
Tolbert, B. M., 494, **228**
Tolbert, N. E., 947, **764**
Tolksdorf, S., 1218, **1153**
Toman, J. E. P., 1090, **1094**; 1266, **1093**
Tomashefsky, P., 682, **792**; 699, **1050**
Tomita, K., 948, **964**
Tomizawa, H. H., 1361, **957**
Tomlinson, N., 803, **906**
Tookey, H. L., 949, **1081**
Toporek, M., 1362, **933**
Toribara, T. Y., 840, **1013**; 1200, **1150**
Toriello, J., 778, **80**
Toth, J. P., Jr., 278, **464**
Totter, J. R., 950, **953**
Touchstone, J. C., 495, **219**; 634, **626**
Tourtellotte, C. D., 566, **1003**
Touster, O., 951, **870**; 957, **634**
Towe, A. L., 496, **180**
Townsley, P. M., 702, **920**
Tracht, M. E., 189, **235**
Trapani, I. L., 1569, **424**
Treadwell, C. R., 1466, **1523**; 1467, **1442**
Trentin, J. J., 1558, **1603**
Tresselt. H. B., 593, **842**
Trousof, N., 1182, **1243**
Truant, A. P., 1267, **1132**
Trunnell, J. B., 657, **722**
Tschirgi, R. D., 497, **446**; **420P**
Tucker, G. F., Jr., 1043, **1240**
Tucker, R. G., 1435, **1519**
Tureman, J. R., 47, **218**
Turner, T. G., 1435, **1519**
Tusing, T. W., 1116, **45**
Tyler, D. B., 498, **697**

Ullrich, R., 16, **269**
Ullrick, W. C., 528, **82**
Underkofler, L. A., 575, **814**
Underwood, A. L., 840, **1013**
Underwood, R. J., 499, **89**
Ungar, F., 952, **676**
Unglaub, W. G., 1404, **1427**
Upham, F. T., 121, **529**
Upham, H. C., 1268, **1268**
Upton, A. C., 1363, **1405**
Usdin, E., 953, **21**
Utley, M. H., 1435, **1519**
Utter, M. F., 777, **612**
Uyeki, E. M., 954, **76**
Uziel, M., 955, **892**

Vahouny, G. V., 1466, **1523**; 1467, **1442**
Valdez, J., 504, **469**

Valero, A., 330, **86**; 340, **322**
Vallee, B. L., 500, **932**
Vanatta, J. C., 378, **112**; 501, **414**
Van Bruggen, J. T., 956, **779**
Vane, J. R., 1179, **1199**
van Eys, J., 957, **634**
Vangerov, M., 958, **789**
van Harreveld, A., 502, **447**
Van Hees, G., 1096, **1178**
Vanko, M., 616, **1035**
Van Liere, E. J., 475, **589**; 503, **83**
Van Maanen, E. F., 1270, **1176**
Van Middlesworth, L., 504, **469**
Van Reen, R., 959, **1082**
Van Slyke, D. D., **605S**
Van Stewart, E., 1468, **1446**
Varner, J. E., 975, **655**
Vars, H. M., 361, **567**; 880, **687**
Vaughan, B. E., 505, **376**
Vennesland, B., 794, **928**
Venning, E. H., 960, **628**
Vergeer, T., 132, **254**
Vernier, V. G., 534, **599**
Vernon, L. P., 753, **701**
Vestling, C. S., 961, **704**
Villavicencio, M., 962, **868**
Villee, C., 275, **239**
Villee, C. A., 963, **1028**
Vincent, T. N., 988, **866**
Vinegar, R., 221, **115**
Visscher, M. B., **420P**
Visser, D. W., 582, **667**
Viswanatha, T., 964, **800**; 1426, **1440**
Viteri, F., 1454, **1426**
Volkmann, C. M., 965, **670**
Van Arman, C. G., 1269, **1275**
von Kaulla, K. V., 506, **35**

Wachsman, J. T., 966, **907**
Wachstein, M., 1364, **1344**
Wadkins, C. L., 967, **694**
Wagman, I. H., 525, **302**
Wagner, C., 410, **143**
Wagner, R. H., 1343, **24**
Wagner-Jauregg, T., 845, **951**
Wainio, W. W., 968, **698**
Waisman, H. A., 969, **691**
Wakerlin, G. E., 283, **558**; 429, **415**
Wakil, S. J., 970, **648**
Wakim, K. G., 317, **454**
Wald, G., 971, **635**
Waldman, D. A., 712, **1051**
Waldron, J. M., 144, **534**
Walker, C. J., 1351, **74**
Walker, M., 1503, **1414**
Walker, S. M., 1579, **602**
Wall, J., 729, **912**
Wall, J. S., 925, **114**
Wall, P. E., 559, **998**
Wall, R. L., 359, **470**
Wallach, D. P., 1256, **1241**; 1277, **1242**
Wallenstein, S. L., 1141, **1325**
Waller, H. J., 507, **134**
Walsh, J. R., 508, **234**; 509, **596**
Walsh, R. R., 510, **185**
Walter, H., 692, **969**
Walton, K. W., 511, **36**
Walton, R. B., 729, **912**
Wang, G. H., 512, **133**
Wang, H. H., 517, **144**
Wang, H.-L., 1448, **1431**
Wang, S. C., 214, **319**
Wannemacher, R. W., 1374, **1493**
Ward, A. A., Jr., 513, **245**
Ward, R., 1559, **1566**
Wardlaw, A. C., 1560, **1539**
Ware, A. G., 780, **1059**
Ware, F., Jr., 514, **384**
Warms, J. V. B., 656, **713**
Warner, E. D., **1396P**
Warner, G. F., 121, **529**; 122, **195**
Warren, J. V., 515, **413**
Warrington, W. R., 1254, **1101**
Warshaw, L., 1584, **1273**
Wase, A. W., 972, **1015**
Wasserman, K., 516, **371**
Watson, D. R., 878A, **1068A**
Watts, D. T., 1158, **1328**
Waud, R. A., 1271, **1184**
Way, J. L., 973, **786**
Weatherby, J. H., 1278, **1343**
Weaver, A. N., 483, **97**
Weaver, J. M., 974, **665**
Webb, B. M., 1038, **1248**
Webb, P., 1580, **177**
Webster, G. C., 975, **655**
Webster, S. H., 1314, **1417**
Wechsler, R. L., 298, **252**
Wegria, R., 517, **144**
Weichselbaum, T. E., 976, **208**
Weidmann, S., 518, **383**
Weil, A. J., 1561, **1531**
Weil, W., 412, **1229**
Weimar, V., 519, **192**
Weimberg, R., 977, **846**
Weimer, H. E., 1562, **1540**
Weiner, M., 520, **37**
Weiner, N., 1192, **12**
Weinhouse, S., 931, **656**
Weinman, E. O., 978, **1201**
Weinstein, H. R., 154, **276**
Weinstein, P., 1104, **1181**
Weinstein, V. A., 255, **283**
Weisberg, H. F., 521, **281**
Weiser, R. S., 1563, **1528**
Weiss, A., 523, **42**
Weiss, A. K., 339, **124**; 522, **225**
Weiss, B., 1564, **781**
Weiss, C., 1365, **1398**
Weiss, S., 521, **281**; 928, **659**
Weiss, S. B., 757, **772**
Weissbach, A., 979, **763**
Welch, A. D., 718, **650**
Weliky, I., 905, **915**
Welker, W. I., 538, **182**
Wellington, F. M., 963, **1028**
Wells, I. C., 870, **643**; 980, **666**
Wells, W. W., 981, **721**
Wemple, R. R., 367, **321**
Wenk, E. J., 1169, **1403**
Wennesland, R., 243, **363**; 524, **365**
Wentz, W. B., 298, **252**
Werbin, H., 982, **715**
Werman, R., 525, **302**
Werner, J. H., 1508, **1551**
Werthessen, N. T., 526, **10**
Wertz, A. W., 1442, **1454**
West, E. S., 29, **274**; 850, **1032**
West, H. D., 983, **1147**; 1272, **1341**
West, T. C., 1051, **1180**; 1273, **1270**
Westerfeld, W. W., 870, **643**
Westley, J., 984, **653**
Weston, R. E., 208, **458**; 527, **229**
Weston, W. J., 899, **994**
Westphal, O., 1536, **1577**
Westphal, U., 562, **1040**
Whipple, G. H., 1373, **1377**
White, A. F., 201, **256**
Whitehead, R. W., 1274, **1098**
Whitehorn, W. V., 528, **82**
Whitney, I. B., 1389, **1449**
Wiebers, J. E., 33, **512**
Wiese, H. F., 1409, **1437**; 1469, **1438**
Wiest, W. G., 584, **675**; 985, **673**
Wikler, A., 1049, **1305**; 1145, **1123**
Wilcox, E. B., 1470, **1524**; 1471, **1507**
Wilcox, P. E., 529, **830**
Wilcox, W. C., 1476, **1565**
Wilgram, G. F., 530, **597**
Wilken, W., 1137, **1096**; 1248, **1095**
Williams, A. H., 531, **198**
Williams, F., 405, **196**
Williams, F. L., 5, **506**
Williams, G. R., 614, **755**; 986, **684**
Williams, G. Z., 1366, **1412**
Williams, J. N., Jr., 672, **726**; 969, **691**
Williams, M. H., Jr., 532, **375**
Williams, P. L., 729, **912**
Williams, P. M., 1195, **1088**
Williams, R. C., 1488, **1572**
Williams, R. H., 1361, **957**
Williams, V. R., 987, **954**
Williams, W. L., 1296, **1416**; 1367, **1366**
Williams, W. R., 956, **779**
Williamson, B. J., 533, **598**
Wills, J. H., 1204, **1169**
Wilson, A. T., 1565, **MP p. 492**
Wilson, D. W., 999, **686**
Wilson, G. P., 205, **137**
Wilson, J. E., 1062, **73**
Wilson, J. W., 1368, **1372**
Wilson, R. H., 1275, **1133**
Wilson, T. H., 988, **866**
Wilson, V. J., 534, **599**
Wimpy, J. A., 1573, **142**
Winbury, M. M., 1276, **1342**
Wind, S., 1452, **5**
Windholz, E., 1319, **1418**
Windsor, E., 269, **468**
Winters, W. D., 1256, **1241**; 1277, **1242**
Wintrobe, M. M., 1408, **1428**
Wissler, R. W., 1328, **1362**; 1339, **15**; 1369, **6**
Witebsky, E., 1544, **1538**
Witkin, L. B., 1278, **1343**
Wittenberg, J., 989, **887**
Wixom, R. L., 1472, **1492**
Wohl, M. G., 1375, **1424**
Wolbach, R. A., 990, **925**
Wolcott, D. C., 488, **593**
Wolf, A., 1353, **1354**
Wolf, G., 991, **637**
Wolf, L. M., 186, **1165**
Wolf, R. C., 535, **210**
Wolfe, D. E., 462, **54**
Wolfe, J. B., 992, **1026**
Wolfman, M., 208, **458**
Wolman, I., 238, **427**
Wood, D. C., 1370, **1353**
Wood, E. H., 95, **309**; 231, **138**
Wood, J. L., 829, **1148**
Wood, P., 1471, **1507**
Wood, R. C., 993, **853**

Wood, W. B., 306, **326**
Woodbury, D. M., 1265, **1092**; 1279, **1091**
Woodbury, J. W., 536, **431**
Woodbury, R. A., 1205, **1337**
Woodcock, R. T., 1103, **1120**
Woodie, J., 1527, **1557**
Woods, L. A., 1125, **1224**; 1134, **1182**; 1280, **1214**
Woods, M., 736, **863**
Woodward, E. R., 426, **288**
Wool, I., 537, **113**
Woolley, D. W., 554, **854**; 994, **452**
Woolsey, C. N., 538, **182**
Wooten, E., 1473, **1525**
Wosilait, W. D., 935, **996**; 995, **993**
Wotiz, H. H., 996, **677**
Wright, B. E., 997, **1083**
Wright, E. B., 539, **354**
Wright, E. W., Jr., 299, **128**
Wright, H. V., 1380, **1465**
Wriston, J. C., Jr., 998, **729**
Wu, R., 999, **686**
Wurz, L., 1351, **74**
Wyss, O., 830, **1067**

Yaeger, R. G., 827, **725**
Yamasaki, S., 174, **443**
Yandel, F., 796, **1061**
Yang, C.-S., 1447, **1485**
Yang, J. T., 684, **810**
Yang, S. P., 1474, **1526**
Yanofsky, C., 477, **678**
Yarbro, C. L., 1000, **1084**
Yarbro, J. W., 1188, **1282**
Yard, A. S., 1001, **1144**
Ycas, M., 1002, **921**
Yerganian, G., 1371, **60**; 1372, **1423**
Yim, G. K. W., 1151, **1218**; 1281, **1219**
Yonce, L. R., 540, **91**
Yoshimura, H., 541, **600**
Youmans, G. P., 1563, **1528**
Younathan, E. S., 1003, **877**
Young, A. C., 427, **382**
Young, E. M., 919, **900**
Young, J. M., Jr., 414, **734**
Young, L. C. T., 630, **754**
Young, R. J., 1004, **727**
Young, R. L., 1005, **952**
Youngner, J. S., 1566, **1555**
Yu, T. F., 1042, **1109**
Yuile, C. L., **1368P**
Yuile, G. L., 1373, **1377**

Zabin, I., 1006, **711**
Zaffuto, S., 810, **955**
Zak, S. J., 1487, **1533**
Zakrzewski, S. F., 1007, **629**
Zamecnik, P. C., 756, **878**
Zanchetti, A., 60, **126**
Zarrow, M. X., 117, **334**
Zauder, H. L., 1080, **1312**
Zeller, E. A., 917, **1031**; 1008, **1084A**
Zemp, J. W., 276, **474**
Ziegler, D. M., 1009, **1084B**
Ziegler, J., 710, **629**
Zierler, K. L., 14, **488**
Zighera, C. Y., 1401, **1510**
Zilversmit, D. B., 542, **2**
Zucker, M. B., 543, **32**
Zuidema, G. D., 416, **MP p. 492**
Zumoff, B., 50, **148**
Zweifach, B. W., 544, **601**; 545, **259**

SUBJECT INDEX

NOTE: This subject index is a modification of the system of coordinate indexing (see *Coordinate Indexing:* M. Taube and Associates, Documentation Incorporated, 1953) using unit terms rather than cross references.

The user, rather than the indexer, determines what terms he wishes to coordinate. By looking up each of these and noting the serial numbers that are common, he can find the abstracts that combine the items. The index may be used in the usual way for single item search. Index references are the serial numbers of these abstracts.

Due to the short time available for preparation of the index, many compromises in unit terms have been necessary, and frequently general rather than specific entries have been used.

Absorption, 389, 945, 988, 1383, 1448, 1511, 1535
Acceleration, 177, 1579
Acerola, 1378
Acetaldehyde, 1260
Acetates, 319, 549, 666, 696, 732, 765, 792, 877, 909, 956, 1189, 1422, 1564
Acetazoleamide, 1195
Acetazoleamide (2-acetylamino-1,3,4-thiadiazole-5-sulfonamide), 16, 81, 170, 1171
Acetin, 1431
Acetoacetate, 909
Acetobacter aceti, 865
Acetobacter peroxidans, 942
Acetobacter suboxydans, 764, 765, 865
Acetoglycerides, 1015, 1236
Acetoin, 764
Acetolactate, 764
Acetylcholine, 479, 739, 1048, 1092, 1139, 1157, 1216, 1242
Acetylcholinesterase, 37
Acetyl coenzyme A, 666
Acetylmethadol hydrochloride, 1069
Acetyl-para-aminophenol, 1022
Acetyl phosphate, 774
Acetylsalicylic acid, 1055, 1111
Achromobacter fischeri, 950
Acid-base balance, 541
Acidification, 56
Acidosis, 170, 258
Aconitase, 921
Acriflavine, 793
Action currents, 40
Action potentials, 48, 514
Activation, 761, 765, 840, 935, 995
Acute respiratory disease, 1480, 1502, 1508
Acyl-enzymes, 768, 774
Acyl, fatty, 641
2-Acyl-1,3-indandiones 1133, 1241
Adaptation, 80
Adaptive formation, 784
Adenine, 187, 552, 583, 893
Adenohypophysis, 102
Adenosinediphosphate, 716
Adenosinetriphosphate, 37, 204, 376, 385, 597, 737, 937, 1019, 1081, 1169, 1291
Adenylate kinase, 954
Adenylic acid, 804, 907
Adenylic kinase, 817
Adenylosuccinic acid, 611
Adrenal cortex, 34, 47, 93, 119, 181, 394, 411, 425, 447, 454, 495, 496, 497, 535, 634, 661, 724, 797, 850, 911, 938, 1066, 1085, 1216, 1218, 1265, 1299, 1302, 1571
Adrenal medulla, 145
Adrenergic blockade, 1244
Adrenocortical hormone, 292, 1265
Afferents, 299
Age, 49, 271, 291, 618, 939
Agglutination, 1497
Aging, 1357
Alanine, 958, 1444
Albumin, 838, 849, 1487, 1557
Alcohol, 500, 661, 1082, 1091, 1161
Aldehydes, 794
Algae, 947
Alkaline phosphatase, 880
Alkaloids, 1029
Alkyl isocyanide complexes, 1583
Alloxan, 576, 1434
Allyl, 1082
Allylisopropylacetyl carbamide, 779
Alveolus, 453
Amethopterin, 1416
Amines, 139, 369, 1104, 1134, 1223
Amino-acetophenone-2-C-14, 1310
Amino acids, 30, 125, 140, 235, 254, 529, 604, 620, 647, 662, 710, 756, 795, 830, 862, 873, 940, 1083, 1417, 1425, 1442, 1447
Amino-γ-butyrolactone, 928
2-Amino-5-chlorobenzoxazole, 1103, 1150, 1183
Amino groups, 620
Aminoguanidine, 253
4-Aminoimidazole, 861
Amino-imidazolecarboxamide, 711, 973
Amino-β-ketoacids, 905
Aminoketones, 905
Aminolevulinic acid, 897, 905
Aminolysis, 1581
Aminopeptidase, 733
β-Aminopropionitrile, 564, 1286
Aminopterin, 694
Amnionic fluid, 1345
Amygdala, 312
Amylase, 1003, 1571
Anaerobes, 753
Analgesics 1022, 1047, 1113, 1141, 1185, 1199, 1255
Analogs, 948
Anaphylaxis, 1534, 1538
Androgens, 1300
Δ^1-Androstene-11β-01-3,17-dione, 634
Anemia, 883, 1362, 1454
Anesthetics, 160, 239, 1038, 1101, 1177, 1205, 1214, 1257
Anethole, 1037
Angiotonin, 728
Anorexia, 1429
Anoxia, 84, 89, 112, 353, 505, 1276, 1338
Antagonists, 1040, 1099
Antibiotics, 1254, 1561
Antibodies, 192, 462, 472, 821, 883, 1295, 1367, 1476, 1477, 1481, 1482, 1484, 1487, 1489, 1491, 1492, 1493, 1494, 1496, 1498, 1501, 1506, 1508, 1511, 1517, 1518, 1519, 1521, 1526, 1528, 1531, 1536, 1537, 1542, 1550, 1554 1559
Anticholinesterase, 161, 163, 268, 329, 1156
Anticoagulants, 1116, 1133
Anticonvulsants, 1021, 1115, 1137, 1195, 1243, 1247, 1248, 1264
Antidiuresis, 1031
Antidiuretic hormone, 1095
Antigen, 472, 1326, 1328, 1481, 1486, 1491, 1492, 1493, 1494, 1499, 1501, 1505, 1506, 1508, 1516, 1520, 1521, 1522, 1526, 1528, 1531, 1533, 1534, 1536, 1542, 1554
Antihemophilic factor, 1343
Antihistamines, 1207, 1239, 1267
Antihormones, 9
Anti-inflammation, 911
Antimetabolites, 980, 994, 1380
Antimitotic agents, 227
Antioxidants, 179, 629, 1116, 1430
Antipyrine, 420
Antirenin, 283, 429
Antisera, 1288, 1326, 1327, 1354, 1370, 1481
Antitoxin, 1522
Aorta, 225, 246, 526
Appetite, 159, 723, 1386
Aquocobalamin, 575
L-Arabinose, 977
Arachidonate, 927
Arrhythmias, 297, 1077, 1253
Arterenol, 1061
Arterial blood, 370
Arterial pressure, 517
Arterial wall, 946

Arteries, 1339, 1360
Arteritis, 1304, 1342
Ascites, 249, 663, 721, 862, 958, 1309, 1329, 1539
Ascorbic acid, 18, 727, 749, 1201, 1378, 1394, 1411, 1413, 1421, 1447
Asparagine, 975
Aspartase, 987
Aspartate, 658
Assays, 948
Astatine, 742
Asystole, 413
Ataxia, 328
Atherogenesis, 372, 466
Atherosclerosis, 257, 1308, 1316, 1336, 1339, 1360, 1369
Atrial pressure, 213
Atropine, 101
Auditory nerve, 169
Aureomycin, 19, 1412, 1433, 1443
Auricles, 540, 1273
Autonomic hormone, 371
Autoprothrombin, 901
Autoradiography, 1505
Axons, 3, 210, 438, 539
Azaserine, 188
Azide, 685, 1332
Azocycloheptane, 1109, 1113
Azo dye carcinogenesis, 624
Azoproteins, 1505
Azotobacter, 712, 830

Bacillus subtilis, 718, 1493
Bacteria, 1305, 1370
Bacteriophage, 594, 801, 812, 913, 929, 1540
Bacteriostasis, 582
Bacterium cadaveris, 987
Bacterium tularense, 967
Ballistocardiogram, 205
Barbiturates, 1019, 1072, 1079, 1119, 1182, 1277
Barbituric acid, 1043
Barometric pressure, 358
Behavior, 1075
Benzene, 1108
Benzoic acids, 1142, 1159
Besnoitia jellisoni, 1302
Betaine, 509, 850, 1004
Betaine transmethylase, 915
Beta rays, 1311
Bicarbonate, 181, 533
Bile, 635, 914, 1039, 1067, 1173, 1290, 1490
Binding, 804
Bioassay, 1584
Biosynthesis, 477, 787, 808, 915, 931, 996, 1002, 1006, 1201
Biotin, 1379
Bismonoisopropylaminofluorophosphine oxide, 808
Bladder, 403
Blocking agents, 383
Blood, 44, 55, 144, 264, 316, 497, 543, 838, 885, 1375, 1469
Blood-brain barrier, 497
Blood changes, 1153
Blood coagulation, 151, 520, 523, 707, 1070, 1238, 1306, 1324, 1343, 1372, 1402, 1493
Blood factors, 953
Blood flow, 33, 36, 52, 132, 152, 208, 216, 298, 420, 441, 460, 517, 545, 1125, 1126, 1325
Blood group, 1477, 1513, 1530
Blood preservation, 1117
Blood pressure, 5, 35, 63, 130, 294, 331, 483, 491, 612, 1039, 1124, 1199, 1229
Blood volume, 51, 524, 531
Body density, 67
Body size, 31, 243, 287
Body temperature, 147, 333, 406
Bone, 157, 648, 840, 918, 1285, 1301, 1389
Bone marrow, 126, 364, 1108
Borate, 1084
Bradycardia, 1025
Brain, 17, 34, 78, 115, 135, 177, 201, 203, 204, 216, 271, 274, 298, 312, 324, 328, 346, 406, 411, 458, 460, 497, 525, 586, 588, 783, 842, 920, 1135, 1182, 1198, 1208, 1232, 1265, 1279, 1293, 1322, 1325
Brain cortex, 1, 60, 136, 173, 174, 212, 273, 301, 482, 502, 513, 538, 1196, 1260
Brain stem, 250, 325, 331, 512
Breath holding, 84, 352
Breathing, 416, 421
Brei fractionation, 12
British anti-lewisite, 375
Bromphenol blue, 923
Bronchi, 456
Buffer nerve, 99
Bulbocapnine, 1
Burns, 247, 347, 405, 446
Butter fat, 1426
Butyrylcholine, 1163

Caffeine, 1052
Calcification, 918
Calcium, 3, 137, 157, 490, 533, 648, 1020, 1383, 1384, 1389, 1432, 1439, 1465
Calcium bicarbonate, 1200
Calcium phosphate, 1000
Caloric disposition, 1428
Canavanine, 762
Candida albicans, 1507
Capillaries, 21, 32, 516, 1326
Carbamino protein, 679
Carbamyl phosphate, 751
Carbohydrate, 10, 925, 1265, 1377
Carbon, 373, 565, 569, 584, 598, 727, 732, 985, 991, 1422
Carbonate, 840
Carbon chloride, 1188
Carbon cycle, 607
Carbon dioxide 56, 64, 78, 92, 258, 261, 425, 453, 494, 658, 855, 1279
Carbon dioxide fixation, 979
Carbon-14-hyodesoxycholic acid, 816
Carbonic anhydrase, 41, 81, 425, 1181
Carbon monoxide, 7, 79, 352, 444, 449, 524
Carbon tetrachloride, 492, 1368
Carcinogens, 77, 313, 469, 590, 601, 624, 682, 699, 721, 723, 839, 906, 996, 1050, 1083, 1229, 1274, 1283, 1289, 1300, 1303, 1329, 1333, 1341, 1349, 1366, 1374, 1503, 1539
Cardiac output, 49, 93, 182, 206, 231, 517
Cardiac tamponade, 499
Cardiac work, 5
Cardiovascular responses, 1097
Caries, 632
Caronamide, 104
Carotene, 202, 1412, 1420, 1439, 1454, 1470
Carotenoids, 644
Carotid occlusion, 87
Cartilage, 109
Casein, 838, 1107
Castration, 117
Catalase, 266, 926
Catatonia, 1
Cathecholamines, 381, 1087
Catheptic activity, 682
Cations, 408, 1149
Caudate nucleus, 111
Cell division, 26
Cell growth, 1366
Cells, 1273
Cell structure, 1120
Cell surfaces, 262
Cell suspensions, 769, 1333
Central nervous system, 1059, 1103, 1105, 1123
Centrifugation, 1009
Cerebral motor area, 115
Cerebrosides, 863
Chelates, 702
Chemiluminescences, 675
Chenodeoxycholic acid, 1490
Chenodesoxycholic acid, 807
Chloride, 296
Chlorine, 1410
Chloroacetanilide, 866
Chlorophyll, 560
Chlorophyllin, 1283
Chlorpromazine, 114, 411, 586, 1017, 1077, 1097, 1136, 1141, 1198, 1222, 1249
Cholecystokinin, 314
Choleresis, 1063
Δ^1-Cholestenol, 981
Cholesterol, 148, 267, 474, 526, 542, 590, 602, 625, 656, 752, 772, 842, 879, 982, 1360, 1369, 1376, 1428, 1446, 1452, 1490, 1564
Cholesterolemia, 1192
Cholic acid, 879, 1490
Choline, 296, 530, 688, 726, 980, 986, 1004, 1441
Cholineacetylase, 1199
Cholinergic drugs, 70
Cholinesterase, 39, 53, 346, 748, 808, 824, 1035, 1048, 1065, 1092, 1147, 1162, 1165, 1208, 1270
Chondroitin sulfate B, 823
Chondroitinsulfuric acid, 815
Choriomeningitis, 1340
Chromatography, 138, 989, 1290
Chromium, 243, 524, 1503
Chromosomes, 1323
C_{21}-17 hydroxylated steroids, 881
Chymotrypsin, 37, 643, 818, 824, 891
Chymotrypsinogen, 529, 665, 841
Cinefluorography, 356, 468
Circulation, 17, 201, 274, 395, 404, 421, 515, 1124, 1574
Cirrhosis, 604, 1128, 1300, 1309
Citrate, 1493
Citric acid, 18, 29, 137
Citrovorum factor, 657, 718, 1411, 1416
Citrulline, 751
Clostridium, 1499
Clostridium botulinum, 593
Clostridium cylindrosporum, 861, 997
Clostridium histolyticum, 810
Clostridium tetanomorphum, 966
Clothes, 74

Cobalt, 184, 197, 342, 1071
Cocaine, 518
Cochlea, 112, 169, 228
Codeine, 1203
Coenzyme A, 571, 617, 636, 641, 669, 701, 825, 1304, 1392, 1447
Cofactors, 621, 997
Cold, 28, 33, 74, 80, 89, 105, 191, 226, 311, 339, 345, 350, 353, 361, 391, 406, 522, 539, 1014, 1041, 1325, 1572, 1575, 1580
Collagen, 744, 1295, 1304, 1317
Collapse, 404
Collodion membranes, 609
Colloids, 172, 251, 1106, 1140, 1148
Complement, 1479, 1481, 1491, 1493, 1498, 1508, 1522, 1531, 1537, 1544, 1550
Compression, 176
Conformation, 684
Congestive failure, 1584
Conjugate eye deviation, 525
Conjugate steroids, 796
Conjugation, 976
Consciousness, 71
Constipation, 1122
Constriction, 225, 306, 456
Contraction, 384, 385, 668, 728, 1165, 1291
Convulsants, 1146, 1221, 1278
Convulsions, 217, 1435
Copper, 789, 1408
Corn, 1426, 1460
Cornea, 446
Coronary flow, 5, 36, 413, 517, 1339
Corpus albicans, 1541
Corticospinal pathways, 60
Corticosteroids, 18, 237, 442, 486, 1258
Corticosterone, 938
Corticotropin, 55, 181, 424, 1072, 1155, 1299, 1571
Cortisone, 10, 113, 128, 149, 199, 255, 363, 535, 726, 867, 1072, 1330, 1353, 1504, 1519, 1546, 1552
Cothromboplastin reaction, 1335
Cotton seed oil, 1319, 1320, 1405
Cough, 407, 515, 1186
Creatine, 608
Creatine phosphate, 850
Creatinine, 195, 608
Cross circulation, 133
Cross reactivity, 1491
Crustacea, 971
Cryptococcus neoformans, 1541
Cunninghamella blakesleeana, 811
Cyanide, 968
Cyanine, 1219
Cyanocobalamin, 575
Cystathionine, 589
Cysteine, 342, 722
Cystine, 561, 832, 928, 1374, 1417, 1427
Cytidine-diphosphate-choline, 757
Cytochromes, 143, 753, 800, 968, 1002
Cytology, 1327
Cytolyzer, 1352
Cytopathogenicity, 1527, 1532, 1553
Cytoplasm, 232, 346, 1175
Cytosine, 893

Decaborane, 1138
Deca-methylenediguanidine hydrochloride, 521
Decarboxylation, 369
Decompression, 22, 309, 1352
Degeneration, 875
Degradation, 867
Dehydrases, 889
Dehydration, 430
Dehydrogenase, 500, 641, 969, 970
Dehydroshikimic acid, 1500
Denervation, 550
Dengue virus, 1510
Deoxycytidine, 659
Deoxypentose, 660
Deoxyribonucleic acid, 615, 690
Deoxyribonucleoprotein, 91
Deoxyribose nucleic acid, 485
Deoxyriboside, 694
Depressants, 1123, 1150
Dermatitis, 1131, 1433, 1449, 1484, 1541
Desoxycorticosterone, 938
Desoxycorticosterone acetate, 113, 249, 1356
Desoxypentose nucleic acid, 721, 737, 847
Desoxypentose nucleoproteins, 884
Desoxyribonucleic acid, 812, 1330, 1555
Dextrans, 443, 511, 1513
Diabetes, 9, 20, 29, 106, 418, 696, 958, 1404, 1434
Diacetyl, 1060
Dialkylfluorophosphatases, 834
1,4-Diamethanesulfonoxybutane, 1030
Diaphorase, 864
Diaphragm, 836
3,4-Dichlorophenylserine, 965
Dienoic acid, 1409
Diet, 466, 470, 535, 887, 1313, 1319, 1359, 1369
Diethylamide of lysergic acid, 1145
2-Diethylaminoethyl-isonicotinamide, 1057
Diffusion, 449
Digestion, 555, 782, 904, 1112, 1437, 1450
Digital computer, 11
Digitoxin, 1130, 1210
Dihydrocholesterol, 1582
Di hydro hydroxymorphinone, 1058
Dihydrotachysterol, 489
Dihydroxyphenylalanine, 851
Di-isopropylfluorophosphate, 259, 748, 824
Dilution space, 45, 231
4-Dimethylaminoazobenzene, 826
2,5-Dimethylbenzimidazole, 624
Dimethylnitrosamine, 1211
Dinitrophenol, 536, 549, 554, 605, 754, 963
Dinitrophenol acetate, 660
Dinitrophenyl amino acids, 940
Diodrast, 124
Diphenyl, 983
Diphenyl hydantoin, 1225
Diphosphatase, 714
Diphosphopyridine nucleotide, 794, 802, 837
Diphtheria, 1379, 1521, 1522
Dissociation, 1043
Distemper, 1312
Distribution, 749, 805
Distribution spaces, 121, 1140
Distribution volume, 69
Diuresis, 4, 99, 249, 375, 416, 465, 730, 1098, 1197, 1269, 1356, 1584
Diurnal rhythm, 155
Diurnal variation, 960
Drugs, 1059, 1229, 1243
Dye, Evans blue, 1336
Dyes, 508, 1219, 1284
Dye, T-1824, 251
Dye, Toluidine blue O, 1284
Dystrophy, 175, 355

Ear, 112, 169, 180, 217, 228, 290
Ectromelia, 1558
Edema, 225, 1244, 1293, 1296, 1418
Electrical activity, 1135
Electrical stimulation, 783
Electric organs, 8
Electrochromatography, 755
Electroconvulsion, 290
Electroencephalography, 27, 42, 60, 71, 78, 87, 102, 116, 452
Electrolytes, 45, 145, 203, 245, 246, 252, 286, 353, 378, 946, 1068, 1568
Electromyograms, 118
Electron microscope, 1350
Electrophoresis, 355, 665, 769, 919, 1516, 1547, 1562
Electrophorus, 8
Electroplax, 8
Electroretinogram, 379
Electroshock, 1090, 1261, 1264, 1266, 1279
Embolism, 270, 532
Embryos, 185, 334, 737, 819, 1148, 1312, 1315, 1345, 1354, 1398, 1525
Emetics, 1164
Emulsions, 150, 241
Encephalitis, 1527
Encephalomyelitis, 1514, 1535, 1539
Endocrine glands, 154
Endotoxins, 1487, 1552
Entamoeba histolytica, 578, 1120, 1175
Enterokinase, 1074
Environment, 1078
Enzymes, 38, 141, 276, 706, 768, 774, 784, 892, 938, 995, 1361, 1495
Eosinophils, 260
Ephedrine, 1262, 1390
Epilepsy, 87, 513
Epinephrine, 128, 139, 223, 257, 264, 935, 1018, 1020, 1061, 1077, 1086, 1158, 1176, 1191, 1196, 1271, 1377, 1390
Equilibrium dialysis, 923
Ergometer, 88
Ergosterol, 477
Ergotamine, 1126
Ergothioneine, 822
Erythrocytes, 13, 79, 97, 194, 238, 341, 360, 600, 629, 700, 766, 903, 1149, 1208, 1414, 1504, 1512, 1533, 1536, 1550, 1569
Erythrose, 2
Escherichia coli, 570, 767, 876, 984, 1552
Eserine, 259
Esophagus, 86
Esterase, 772
Esters, 917
Estradiol, 565, 792, 963
Estriol, 687
Estrogens, 127, 142, 338, 372, 487, 488, 744, 930, 1339
Estrone, 1445
Ethanol, 276, 1190, 1260
Ethanolamine phosphate, 917
Ether, 424
Ethionine, 537, 790, 944, 1212, 1298, 1418, 1429
1-Ethyl-3-allyl-6-aminouracil, 1269

Ethylenediamine tetra-acetate, 1235, 1253
Ethylenediaminetetraacetic acid, 761
2-Ethyl-5-methylbenzimidazole, 624
Exchange, 716, 773, 937
Excitability, 78, 226, 289, 330, 392, 482, 1279
Excretion, 23, 50, 113, 125, 137, 145, 447, 484, 494, 533, 805, 1067, 1181, 1226, 1243, 1388, 1568
Extracellular fluid, 344
Eye, 116, 250, 349, 379, 446, 525, 1008

Facilitation, 305
Farnesol, 656
Fasting, 75, 345, 527, 1376
Fat, 144, 189, 401, 493, 537, 705, 1001, 1313, 1466, 1467
Fatty acids, 94, 165, 209, 418, 547, 561, 552, 613, 738, 1409, 1431
Feces, 981
Feeding, 838, 956
Fenugreek, 1442
Fermentation, 966
Ferrichrome, 702
Ferritin, 19
Fetus, 83
Fever, 288
Fibers, 385, 1450
Fibrin, 1295
Fibrinogen, 908
Fibrinolysis, 908, 1016
Fibroblasts, 232, 832
Fibrosarcoma, 590
Flavin nucleotides, 763
Flavoproteins, 641
Flexner-Jobling carcinoma, 682
Flow-pressure ratios, 326
Fluid volumes, 222, 243, 499
Fluorescence, 1295
Fluoride, 549, 1094
Fluorine, 1455
Fluoroacetate, 669
Fluoroacetyl coenzyme A, 599
Fluorophenylalanine, 1475
Fluorosis, 1432
Folacin, 1444
Folic acid, 657, 953, 1416
Folinic acid, 637
Follicle-stimulating hormone, 1473
Food colors, 1013
Food intake, 1246, 1424
Formaldehyde, 606, 722, 998
Formate, 1231, 1411, 1441, 1444, 1456
Formic acid, 926
Fractionation, 1009
Frostbite, 220
Fructose, 696, 1227
Fructose-1,6-diphosphate, 587
Fructose-6-phosphate, 924
Fumarase, 553
Furadroxy[1], 1093

Galactoflavin, 1380
Galactose, 720
Gamma globulin, 282
Gamma rays, 62, 1331
Ganglia, 1
Gargoylism, 1384
Gases, 150
Gas gangrene, 1499
Gastric secretion, 110, 161, 240, 253, 1055, 1189
Gastrointestinal absorption, 1344
Gastrointestinal bleeding, 97
Gelatin, 1528, 1569
Gelatine sponge, 1322
Genealogy, 686
Genetics, 776, 1323
G forces, 130, 177, 294
Gills, 445
Globulins, 304, 481, 651, 859, 1481, 1492, 1494, 1505, 1518, 1522, 1526, 1554, 1562
Glomerular fluid, 595
Glomerulonephritis, 821, 1168, 1288
Glomerulus, 218
Glucagon, 374, 935, 1390
Glucosamine, 740, 836
Glucose, 20, 336, 578, 715, 720, 835, 836, 958, 1201, 1276, 1341, 1438, 1502
Glucose oxidase, 577
Glucuronide, 680, 828
Glutamic acid, 631, 732, 966, 969
Glutathione, 179, 770, 798
Glyceraldehyde-3-phosphate dehydrogenase, 567, 768, 774
Glyceride, 831
L-α-Glycerylphosphorylcholine, 955
Glycine, 725, 732, 997, 1441, 1444, 1456, 1472
Glycocyamine, 850
Glycogen, 94, 327, 374, 521, 674, 828, 1296, 1338, 1423, 1440, 1444
Glycogenolysis, 1338
Glycolic acid, 947
Glycolysis, 736, 1341
Glycoproteins, 655, 1562
Glycosides, 310, 321, 412, 1149
Goiter, 504, 948, 1407
Goitrogen, 142
Gold, 172, 1102, 1106, 1309
Goldthioglucose, 1401
Gonadotrophin, 27, 371, 1461
Gossypol, 1405
Gramicidin, 1495
Granulocytes, 1497
Growth, 72, 175, 287, 386, 571, 626, 639, 855, 900, 974, 1287, 1289, 1303, 1312, 1315, 1320, 1354, 1370
Growth hormone, 9, 109, 138, 279, 1315
Guanidine, 762, 1188
Guanosine diphosphate, 756

Habituation, 228
Haemophilus pertussis, 1534, 1538
Hapten, 1517
Heart, 5, 213, 310, 321, 327, 330, 348, 351, 354, 356, 396, 398, 402, 412, 413, 416, 479, 503, 668, 1130, 1191, 1250, 1253, 1262, 1291, 1380, 1573, 1579
Heart beat, 83
Heart disease, 527
Heart failure, 113, 191, 277, 1375
Heart-lung, 1271
Heart muscle, 528, 1276
Heart rate, 63, 1101, 1205, 1579
Heat, 33, 54, 80, 89, 105, 114, 122, 182, 220, 473, 1580
Heat regulation, 59, 147, 196, 431
HeLa cells, 683, 1346, 1480, 1482, 1488 1502, 1527, 1529, 1532
Hemagglutination, 1506, 1519, 1539
Hemagglutinin, 1479
Hematin, 619
Hematocrit, 197
Hematopoiesis, 1030, 1081, 1108, 1220
Heme, 903
Hemin, 833
Hemo-depressors, 213
Hemodilution, 388
Hemodynamics, 54, 360, 1061, 1198, 1568
Hemoglobin, 833, 990, 1393, 1583
Hemolysis, 311, 388, 858, 883, 1139, 1414, 1491, 1550, 1551, 1565
Hemophilia, 1306, 1335, 1343
Hemophilis, 1324
Hemorrhage, 464, 531, 1026, 1033, 1136, 1337, 1402
Heparin, 96, 103, 506, 511, 520, 1114, 1493, 1504
Heparinase, 1056
Hepatolenticular degeneration, 1408
Hernia, 1380
Hibernation, 236
High-frequency stimulation, 65
Histamine, 25, 455, 478, 892, 1031, 1172, 1174, 1179, 1207, 1216, 1239, 1504, 1534
Histidine, 548, 566, 984
L-Histidinol, 984
Histiocytes, 1345
Histones, 640
Histoplasma capsulatum, 1541, 1545
Homocysteine, 998
Homogeneity, 833
Homogentisic acid, 754
Homoserine, 762
D-Homosteroids, 698
Humidity, 74
Hydergine, 1119, 1126
Hydracrylic acid, 1321
Hydraulo-manometry, 603
Hydrazides, 601, 1146, 1221
Hydrazine, 1001
Hydrocarbon, 1077, 1105
Hydrocortisone, 10, 107, 1327
Hydrogen, 794
Hydrogenase, 872
Hydrogenation, 627
Hydrogen peroxide, 1557
Hydrolysates, 1448
Hydrolysis, 655, 688
Hydroxamic acid, 158, 748
3-Hydroxyanthranilic acid, 820
D(-)β-hydroxybutyryl CoA dehydrogenase, 970
Hydroxycorticoid, 171
17-Hydroxycorticosteroids, 976
5-Hydroxydeoxyuridine, 582
β-Hydroxy β-2,5 dimethoxyphenyl isolpropylamine, 1271
Hydroxylamine, 654
Hydroxylases, 724
β-Hydroxy-β-methylglutaryl coenzyme A, 874
l-3-Hydroxy-N-allylmorphinan, 1180, 1193, 1281
Hydroxyphenyl acids, *m*-, 559
Hydroxyphenylpyruvic acid, 377, 664
Hydroxy steroids, 952
Hyperglycemia, 1224
Hyperphagia, 1401
Hypersensitivity, 1478, 1484, 1534, 1538

Hypertension, 159, 162, 199, 246, 283, 357, 369, 435, 1080, 1121, 1202, 1326A, 1356
Hypertonic solutions, 1293
Hypertrophy, 1334
Hypervitaminosis A, 842
Hypnosis, 1079, 1251
Hypoglycemia, 43, 1053, 1160
β-Hypophamine, 162
Hypophysis, 292, 916, 925, 1044, 1473
Hypoprothrombinemia, 746
Hypotension, 1033, 1121, 1209, 1213, 1332
Hypothalamus, 27, 102, 171, 211, 315, 378, 1129, 1401
Hypothyroidism, 1364
Hypoxanthine, 691
Hypoxia, 81, 152, 288, 1572

Ileectomy, 1420
Image amplifier, 468
Immunology, 511, 1168
Inclusions, 1347, 1368, 1488
Incorporation, 898, 944
Indican, 1382
Individuality, 776
Indoleacetic acid, 933
Infarction, 223, 406
Infections, 801, 1345, 1353, 1475, 1488, 1507
Inflammation, 1292
Influenza, 1312, 1475, 1480, 1489, 1506, 1511, 1514, 1519, 1532, 1551
Inhibition, 41, 110, 289, 299, 362, 392, 540, 685, 693, 711, 888, 899, 974, 1065, 1270, 1506, 1522
Inhibitors, 676, 811, 882, 937, 1110, 1165, 1479
Injection method, 51
Injury, 697
Innervation, 402
Inosinediphosphate, 716, 852
Inosinetriphosphate, 932
Inositol, 558
Insect dorsal ocelli, 409
Insecticide, 1275
Insulin, 323, 374, 736, 836, 1361, 1434, 1440, 1526
Instrument calibration, 1391
Intestine, 831, 988, 1068, 1132, 1156
Intrapleural pressure, 86, 146
Intrinsic factor, 183, 184, 1362
Inulin, 100, 484
Invertase, 85
Iodates, 1314
Iodide, 504
Iodine, 192, 269, 462, 788, 886, 916, 1107, 1407
Iodoacetate, 240, 419
Iodoproteins, 1505
Ion exchange, 759
Ions, 153, 286, 1048, 1200
Iridophycus flaccidum, 577
Iron, 766, 888, 903, 1155, 1187, 1344, 1386
Isles of Langerhans, 1358
Isocitric dehydrogenase, 963
Isolation, 752, 863
Isomerization, 741
Isonicotinic acid hydrazide, 1217
Isonicotinyl hydrazones, 1034
Isopropyl methyl phosphonofluoridate, 748
Isopropyl methyl phosphonofluoridate, 259, 824
Isotopes, 546, 773, 886, 928, 972, 985, 991, 1285, 1310, 1317, 1322, 1328, 1344, 1361, 1362, 1363, 1373, 1383, 1393, 1551

Joints, 248

Kaolinite, 818
11-Ketoetiocholanolone, 982
Ketosteroids, 783
Kidney, 9, 23, 98, 100, 125, 137, 156, 222, 224, 225, 244, 245, 304, 307, 316, 320, 321, 341, 344, 350, 357, 360, 425, 457, 462, 483, 501, 671, 683, 758, 781, 796, 834, 845, 976, 1048, 1142, 1181, 1188, 1219, 1288, 1319, 1421, 1515, 1568
Kinetics, 38, 643, 773, 824
Kupffer cells, 1505
Kwashiorkor, 1454
Kynurenine-4-C-14, 1310

Labor, 459
α-Lactalbumin, 710
Lactate, 23, 958
Lactation, 461
Lactic acid, 44, 1341, 1502
Lactic oxidative decarboxylase, 936
Lactobacilli, 631
Lactobacillus bifidus, 729
Lactobacillus casei, 667, 1411
Lactose, 1399
Lanosterol, 625
Lanthionine, 589
Lard, 1320
Laryngeal reflex, 1076
Laryngospasm, 1038
Lathyrism, 564, 1286, 1359, 1432
Laxatives, 1054
Lecithin, 757
Leucine, 733, 931
Leucocytes, 766, 871, 969, 1272, 1350, 1365, 1497
Leucopenia, 364
Leucovorin, 594
Leukemia, 557, 926, 1340
Levorphan, 1151, 1153, 1224, 1281
Lidocaine, 1046
Liebermann-Burchard reaction, 869
Life span, 467
Light, 703, 793
Light scattering, 815, 1391
Linoleate, 927
Linoleic acid, 1409, 1449
Lipase, 120, 241
Lipemia, 96, 464
Lipids, 119, 123, 128, 203, 264, 324, 547, 610, 636, 705, 738, 808, 819, 920, 945, 989, 1339, 1369, 1469
Lipogenesis, 148, 786, 956
Lipoproteinemia, 1192
Lipoproteins, 119, 234, 272, 843, 1428
Lipotropic agents, 1446, 1466, 1467
Lipoxidase, 629
Liver, 19, 73, 77, 94, 148, 165, 184, 187, 189, 276, 339, 388, 414, 450, 492, 493, 522, 537, 547, 561, 569, 579, 604, 613, 614, 617, 637, 650, 657, 658, 670, 680, 705, 714, 760, 784, 825, 834, 835, 870, 875, 882, 888, 889, 917, 935, 939, 951, 992, 995, 999, 1001, 1063, 1128, 1148, 1212, 1227, 1243, 1256, 1263, 1283, 1296, 1298, 1300, 1319, 1330, 1333, 1345, 1361, 1368, 1394, 1410, 1438, 1444, 1447, 1466, 1467, 1501, 1505
Localization, 916
Locomotion, 111
Luciferase, 950
Luminescence, 259
Lung, 51, 52, 57, 76, 86, 92, 152, 193, 225, 239, 270, 340, 352, 367, 382, 395, 423, 449, 532, 1240, 1244, 1316
Lung resistance, 309, 319, 407
Lung ventilation, 164, 382
Lupus erythematosus, 1348
Lycopene, 1006
Lymph, 278, 506, 962, 1484
Lymphocytes, 1340, 1357, 1484
Lymphosarcoma, 962
Lyophilization, 242
Lysine, 551, 898, 1415, 1417, 1464
Lysozyme, 693, 1563

Magnesium, 3, 23, 805, 1204
Marine algae, 1100
Marine bacterium, 803
Mast cells, 1207
Maternal immunity, 1482
Maturation, 819, 871, 1093
Mauthner's cells, 392
Mechanism, 1025
Meconium, 687
Media, 1346
Medulla, 214
Melanin, 754
Melanoma, 736
Membrane, 335, 336
Meningococcus, 1487
Meperidine hydrochloride, 1049, 1144, 1226
6-Mercaptopurine, 667, 708, 1416
Mercapturic acid, 829
Mercurials, 990
Mercury, 375
Meromyosins, 703
Mesentery, 441
Mesoxalate, 1160
Metabolism, 3, 10, 14, 24, 89, 128, 262, 295, 300, 303, 319, 413, 501, 526, 546, 591, 616, 663, 697, 700, 709, 771, 803, 807, 835, 879, 888, 906, 925, 930, 942, 948, 958, 978, 985, 1110, 1130, 1212, 1256, 1265, 1325, 1377, 1383, 1397, 1434, 1440, 1452, 1468, 1570
Metabolites, 566, 734, 910, 1042, 1215, 1226, 1310
Metal ions, 660
Metamorphosis, 948
Methionine, 673, 827, 832, 915, 1009, 1374, 1392, 1393, 1417, 1418, 1429, 1446
Methionine sulfoximine, 862, 1403
Methoxamine, 1127
Methoxinine, 1475
p-Methoxyphenethylmethyl amines and formaldehyde, 1174, 1242
Methylandrostenediol, 1356
Methylation, 907, 1073
Methylcellulose, 1238
Methylcholanthrene, 1349

Methyl-C^{14}-3-pyridyl ketone, 580
5-Methylcytosine, 615
2,2′-Methylenebis (4-methyl-6-tert-butylphenol), 1116
Methylene blue, 1394, 1447
Methyl groups, 672, 677
Methylhydrazine, 1287
β-Methyl-β-hydroxy glutaric acid, 656
Methylmalonate, 681
2-Methyl, 2-*n*-propyl, 1,3-propanediol dicarbamate, 1028, 1135
Methylserotonins, 994
Methyltestosterone, 1468
Methyl xanthines, 767
Meticortalone, 1218
Meticorten, 1218
Microbioassay, 798
Micrococcus pyogenes var. *aureus*, 993
Micromelia, 1418
Microsomes, 602, 846
Milk, 401, 1451
Mineral, 900
Mitochondria, 143, 614, 630, 714, 743, 809, 937, 986, 1350
Mitosis, 1333
Mitral insufficiency, 95, 1316
Moniliasis, 1507
Monoamine, 1104
Monoamine oxidase, 1294
Monoglycerides, 555
Monophosphates, 932
Monosynaptic reflex, 61
Morphine, 1011, 1024, 1033, 1099, 1125, 1141, 1151, 1152, 1185, 1193, 1228, 1259, 1280
Motility, 426
Mouse pox, 1558
Mucoid, 655
Mucoproteins, 338, 719, 1292
Multiplication, 929
Murmurs, 398
Muscle, 14, 48, 118, 135, 165, 175, 233, 242, 256, 300, 355, 374, 381, 384, 385, 390, 419, 451, 536, 545, 550, 552, 678, 837, 850, 873, 1110, 1165, 1170
Musculofascial transplants, 1282
Mustards, 699, 1081, 1249
Mutagenesis, 767
Mutarotase, 758
Myasthenia gravis, 48
Mycobacteria, 1484
Mycobacterium leprae, 1430
Mycobacterium phlei, 936
Mycobacterium tuberculosis, 706, 1548, 1563
Myelinogenesis, 1237
Myeloma, 859
Mylase P, 1005
Myofibrils, 1291
Myoglobin, 505
Myokinase, 844
Myosin, 761

N-allylnormorphine, 459, 1011, 1228, 1280
Nalorphine hydrochloride, 1023, 1024, 1152, 1153, 1185
Naphthalenes, 1410
Narcotics, 1058
Necrosis, 1170, 1171, 1229, 1283, 1302, 1342, 1358, 1394, 1438, 1447
Nephritis, 304
Nephrosclerosis, 1326A
Nephrosis, 1114
Nephrotoxin, 1288, 1326
Nerve, 68, 286, 289, 434, 471, 626, 808, 1237, 1355
N-ethyl maleimide, 240
N-ethyl-N(1-bromoethyl)naphylenemethylamine HBr, 1230
N-ethyl-3-piperidyl-diphenylacetate hydrochloride, 1247
Neuroglia, 771
Neurohypophysis, 422
Neuromuscular blocking, 48, 1086
Neuromuscular junction, 129
Neuronal discharge timing, 11
Neurons, 438, 496, 507
Neurospora, 386, 715, 1500
Neutralization, 1509, 1531, 1553
Neutrons, 46
Newborn, 151, 275
Newcastle disease, 1483
N-glucosylglycines, 876
Niacin, 1404, 1434, 1439, 1442, 1460
Nickel carbonyl, 934
Nicotinamide mononucleotide, 858
Nicotine, 606, 1158, 1215
Nicotinic acid, 820
β-Nicotinoyl-D-glucuronic acid, 957
Nicitating membrane, 1051
Ninhydrin, 618
Nitric oxide, 872
Nitrite, 621
Nitrofuran, 1093
Nitrogen, 174, 195, 271, 621, 1081, 1249, 1397, 1417, 1425, 1448, 1459, 1465
o-Nitrophenyl-β-D-galactosidase, 1399
Nitroprusside, 1332
Nitrous oxide, 216
N-methylformamide, 569
N-methyl groups, 606, 826
N-methyl nicotinamide, 1404
N-methyl-2-pyridone-5-carboxylic acid, 856
N-methyl uracils, 439
N,N′-bis(2 diethylaminoethyl)-oxamide bis-2-chlorobenzylchloride, 1167
N,N-diethylnicotinamide, 650
Nor-epinephrine, 501, 946, 1018, 1191
N-oxide derivative of nitrogen mustard, 699
N-phenoxyisopropyl-N-benzyl-β-chlorethylamine hydrochloride, 1097
N-terminal sequence, 628
Nuclear constituents, 1154
Nuclei, 793, 1120
Nucleic acids, 583, 660, 673, 759, 785, 871, 890, 913, 973
Nucleoproteins, 1538
Nucleosides, 700, 708, 714, 932
Nucleotides, 552, 554, 583, 622, 627, 777
Nutrition, 729, 1320
Nystagmus, 283

Obesity, 1102, 1401
Octachloronaphthalene, 1381
Octanoate, 1564
Oil, 150
Old yellow enzyme, 961
Olfaction, 343, 510
Oligosaccharides, 740, 1513
Oncotine, 699
Operant, 1075
Opiate, 1023
Optical method, 1008
Ornithine, 751, 1495
Orotic acid, 812, 999, 1045
Orthophosphate, 716
Osmotic activity, 15
Otolith, 198
3-(O-toloxy-1,2 propanediol), 293
Ouabain, 321, 1020, 1169
Ovary, 565
Ovulation, 27
Oxalacetate, 568
Oxalacetic carboxylase, 777
Oxidases, 134, 140, 509, 614, 654, 664, 691, 695, 802, 926, 933, 968, 1104, 1294
Oxidation, 165, 369, 493, 623, 630, 633, 712, 743, 747, 775, 794, 799, 800, 811, 813, 820, 837, 1093, 1231, 1557
Oxygen, 179, 261, 349, 444, 454, 532, 603, 990, 1002, 1279
Oxygen consumption, 106, 359, 366, 383, 522, 603, 1161, 1370
Oxygen exchange, 799

Pain, 1069
Pancreas, 154, 241, 1003, 1160, 1358, 1571
Pantetheine, 596
Pantothenate, 1406
Pantothenic acid, 596, 610, 1379, 1392
Papain, 750, 1569
Papaverine, 397
Paper chromatography, 254, 495, 559, 562, 653, 814, 857, 1513
Paper electrophoresis, 487, 508, 755, 780, 1494, 1501
Para-aminohippurate, 73, 437, 1188
Para-aminosalicylic acid, 69
Parabiosis, 219, 237, 1329
Parahydroxybenzoic acid, 1234
Paralysis, 1478
Paralyzant, 1245
Parametrium, 778
Parathyroid, 137, 489, 490, 1170, 1184
Pasteurella pestis, 1516
Pauling oxygen meter, 366
Peas, 1359
Penicillin, 1412, 1433
Pentobarbital, 1277
Pentylenetetrazol, 1052, 1261
Pepsin, 904, 1297, 1437
Peptidases, 810
Peptides, 731, 1495, 1581
Perfusates, 396
Perfusion, 180, 382, 796
Peripheral resistance, 215
Peristalsis, 108, 475
Permeability, 21, 25, 403, 516, 581, 896
Peroxidase, 207, 839
Phagocytes, 172, 1504, 1507, 1565
Phagocytosis, 1305, 1328, 1348
Phenobarbital, 417, 1225
Phenolesterases, 1008
Phenols, 1008
Phenolsulfatase, 1005
Phenothiazine, 1117
Phenylalanine, 1425, 1459
3-(α-Phenyl-δ-acetylethyl)-4-hydroxy coumarin, 1133, 1241
Phenylbutazone, 1042

Phenylketonuria, 1458
Phlorizin, 307
Phormia regina, 1436
Phosphatases, 332, 670, 682, 1220
Phosphates, 194, 354, 588, 717, 720, 739, 917, 1000, 1374, 1503, 1504
Phosphatides, 688
Phosphines, 400
Phosphodiesterase, 646
Phosphofluorase, 845
3-Phosphoglyceraldehyde dehydrogenase, 864
Phosphoglycerate, 587
Phosphoglyceric acid, 638, 979
Phosphoglycerol, 587
Phospholipase, 949
Phospholipids, 450, 542, 588, 653, 721, 739, 813, 1555
Phosphopeptides, 891
Phosphorus, 26, 347, 490, 588, 799, 1130, 1369, 1439, 1465, 1470, 1551, 1555
Phosphorylase, 678, 804, 899, 935, 995, 1390
Phosphorylation, 1, 322, 376, 614, 630, 636, 743, 747, 799, 809
Phosphoryl-enolpyruvate, 568
Photoperiod, 236
Photoreactivation, 712
Photorecovery, 393
Photosensitization, 922
Photosynthesis, 574, 607, 644, 675, 753, 947, 979
Phytopharmacology, 313
Picrotoxin, 1052
Picryl chloride, 1484
4-Piperidyl diphenylcarbinol hydrochloride, 1040
Pituitary, 73, 211, 287, 295, 394, 1009, 1066, 1303
Placebos, 1027
Placenta, 792
Plants, 817, 1452
Plasma, 64, 119, 120, 168, 272, 585, 728, 790, 849, 860, 1238, 1280, 1306, 1373, 1520
Plasma expanders, 32, 1070
Plasma volume, 160
Plasmin, 878
Plasmolemma, 1175
Platelets, 32, 167, 543, 901, 1324, 1335, 1350, 1363, 1567
Pneumococci, 1487
Pneumonia, 1508
Polarization, 434
Polarography, 342
Poliomyelitis, 683, 890, 1059, 1252, 1318, 1476, 1482, 1502, 1509, 1512, 1515, 1525, 1527, 1531, 1543, 1546, 1553, 1559, 1566
Polonium, 467
Polyacetylenes, 556
Polycythemia, 1071
Polyelectrolytes, 585
Polypeptides, 733
Polyphenols, 754
Polysaccharides, 1317, 1504
Polyvinylpyrrolidone, 923, 1268
Porphobilinogen, 897, 905
Porphyria, 779, 1263
Porphyrins, 897, 1422
Portalization, 316
Post-mortem, 333
Posture, 118
Potassium, 34, 64, 451, 685, 1062, 1179, 1191, 1445
Potassium chloride, 1579
Potentials, 112, 129, 256, 302, 335, 471, 497, 514, 534, 536, 961, 1273
Precipitates, 1481, 1537
Precursors, 829, 993
Pregnancy, 263, 1210, 1289, 1396
Pressors, 139, 501, 1129
Pressure, 86, 448, 1352
Procaine, 308, 518
Profibrinolysin, 82
Progesterone, 584, 598, 744, 985, 1396, 1445
Prolactin, 154, 281, 628
Properdin, 1351, 1560
Propionate, 591, 992
Propionyl coenzyme A, 681
Proprioceptors, 90
β-Propriolactone, 573
Propylene glycol, 1342
Propylthiouracil, 107
Prostate, 778
Protamine, 1493
Proteinases, 1365
Proteins, 168, 269, 295, 342, 470, 508, 557, 573, 575, 579, 585, 639, 668, 684, 686, 692, 697, 733, 756, 769, 790, 825, 862, 894, 895, 898, 904, 923, 1298, 1313, 1328, 1373, 1385, 1396, 1410, 1419, 1446, 1448, 1450, 1456, 1461, 1462, 1466, 1474, 1484, 1492, 1520, 1523, 1526, 1528, 1538, 1557, 1562
Protein synthesis, 795
Proteinuria, 887
Proteolysis, 581, 750
Proteus, 1560
Proteus vulgaris, 734
Prothrombin, 746, 770, 780, 901
Protocatechuic acid, 715, 1500
Protoporphyrin, 905
Pseudomonas, 265, 1500, 1560
Pseudomonas aeruginosa, 1437
Pseudomonas saccharophila, 977
Psychosurgery, 290
Pteridine, 72
Pteroic acids, 1007
Pteroylglutamic acids, 1007, 1379, 1411
Pulse contour method, 93
Pulses, 257, 291, 370, 448
Purification, 760, 844, 845, 870, 912
Purine, 663, 667, 709, 711, 779, 787, 896, 922, 973, 993
Purkinje tissue, 427, 518
Purpura, 1337
Pylorus, 308
Pyribenzamine, 978
Pyridoxal, 791
Pyridoxine, 601, 1379, 1406, 1433, 1435, 1473
Pyrimidine, 627, 922, 1584
Pyrogen, 50, 196, 1012
Pyruvate, 275, 319, 764, 865, 1093
Pyruvic acid, 1375

Q fever, 1486
Quantum, 574
Quercetin, 1036
Quinolinic acid, 820
Quinones, 754

Radiation, 46, 91, 94, 131, 180, 182, 185, 187, 190, 262, 332, 386, 450, 476, 536, 544, 552, 594, 726, 742, 766, 954, 1078, 1166, 1172, 1187, 1192, 1220, 1305, 1307, 1311, 1322, 1326A, 1331, 1351, 1358, 1367, 1371, 1372, 1387, 1485, 1493, 1504, 1549
Radioactivity, 100, 172, 903, 972, 1393, 1490
Radiochromium, 97
Radium, 1285
Ragweed pollen, 1547
Rare earths, 1154
Rauwolfia, 1029
Receptors, 305, 1095
Reflexes, 329, 368, 411, 512, 534, 1118
Remyelination, 380
Renin, 99, 283, 304, 320
Reproduction, 1359, 1435
Rescinnamine, 1213
Reserpine, 27, 186, 1090, 1129, 1178, 1202, 1232, 1233, 1246
Residual volume, 1573
Resin, 1054, 1112, 1122
Respiration, 62, 117, 170, 214, 239, 258, 321, 329, 491, 614, 674, 1096, 1124, 1245, 1281, 1576, 1580
Respiratory tract, 1037
Respiratory viruses, 1502
Reticular formation, 1, 428, 507, 1118
Reticulocytes, 766
Reticuloendothelial system, 168, 229, 251, 474, 512, 726, 1305, 1309, 1328, 1367
Reticulum, 1349
Retina, 349, 1314
Retinene, 741
Reversed-phase system, 814
Rheobase, 3
Rhodopseudomonas gelatinosa, 909
Rhodospirillum rubrum, 666
Riboflavin, 1377, 1379, 1406, 1439, 1444, 1454
9-β-d-Ribofuronosyl purine, 1267
Ribonuclease, 645, 652, 868, 882
Ribonucleic acid, 414, 721, 1315, 1330, 1555
Ribose, 704
Ribose-5-phosphate, 924
Riboside phosphorylase, 943
Ribosides, 709
Ribulose diphosphate, 745, 979
Ribulose 5-phosphate, 745
Rice, 1419, 1463
Rickettsia, 1307
Rickettsia prowazeki, 1498
Rickettsia typhi, 1545
Romilar hydrobromide, 297
Rotary diffusion coefficients, 894
Rutin, 1014, 1036

St. Louis encephalitis virus, 1485
Salicylate, 885, 1255
Salicylic acid, 1066
Salicylsalicylic acid, 1055, 1111
Saline, 465
Saliva, 141, 433, 541, 886
Salts, 277
Saponification, 920
Sarcolemma, 1577
Sarcoma, 626, 926, 1374, 1503
Sarcosine, 546, 695
Secretions, 387
Sedatives, 1213
Seizures, 1115
Selenite, 1132

Semen, 53, 1570
Sensory cortex, 136
Separation, 769, 814
Septum, 212, 399
Sera, 595, 651, 679, 717, 843, 859, 1376, 1523
Serine, 606, 649, 717, 731, 889, 997, 1436, 1441, 1472
Serotonin, 994
Serum proteins, 123, 190, 355, 436, 1385
Shigella, 1552, 1560
Shigella flexneri, 1524
Shikimic acid, 1500
Shivering, 1572, 1575
Shock, 103, 105, 122, 219, 361, 455, 519, 544, 1136, 1155, 1194
Shunts, 395, 399
Silver salts, 1272
Sine acido thymonucleinico segments, 1323
Sitosterol, 1582
Skin, 101, 153, 221, 365, 405, 476, 512, 587, 823, 940, 1118, 1292, 1349
Small intestine, 475, 1399
Small pox, 1518
Sodium, 113, 177, 200, 244, 389, 445, 447, 501, 536, 595, 671, 960, 1181, 1332
Sodium dehydrocholate, 1067
Solubility, 902, 1000
Sound, 217, 228, 248, 290, 398, 1115
Soybeans, 974, 1382
Sparing substance, 1479
Spectra, 379, 769, 793
Spectrophotometry, 221, 689
Sperm, 1093
Spherocytes, 79
Sphincter, 308
Sphingosine, 989
Spike, 210
Spinal cord, 176, 178, 368, 404, 534, 1150
Spinal pathways, 337
Spindles, 135
Spiro-hydantion, 1137, 1248
Spleen, 13, 91, 303, 480, 954, 1328, 1505
Squalene, 656
Starch, 782, 828, 899
Steroids, 66, 140, 181, 263, 373, 698, 724, 796, 797, 811, 814, 877, 881, 911, 952, 996, 1218, 1571
Sterols, 879, 1452
Stomach, 426, 1314, 1424
Streptococci, 622, 1487, 1551, 1565
Streptococcus bovis, 855
Streptococcus faecalis, 1416
Streptococcus faecalis A, 1007
Streptomycin, 1307
Stress, 118, 363, 736, 1014, 1027, 1041, 1085, 1576
Stretch behavior, 390
Stroma, 619
Strontium, 1285, 1301, 1389
Strychnine, 1052
Succinate, 47, 623, 633, 681
Succinic acid, 29
Succinic dehydrogenase, 572, 912
Succinoxidase, 498, 949, 967
Succinylcholine, 1010, 1270
Sucrose, 252
Sugars, 988
Sulfates, 735, 1363
Sulfathalidine, 1426
Sulfhydryl, 110, 645, 1044
Sulfite, 691
Sulfur, 30, 928, 1256, 1403, 1447
Sulfur hexafluoride, 902
Surgery, 662, 1334
Survival, 1366
Suspension stability, 1569
Suxamethonium, 1096
Suxethonium, 1096
Sweat, 230, 437
Sympathectomy, 132
Sympathetics, 383
Sympathomimetics, 730, 1104, 1134
Synapses, 229, 293, 400, 1089
Synovial fluid, 878A, 895
Synthalin A, 521
Syntheses, 597, 751, 812, 847, 914, 1003, 1420, 1423

Tachycardia, 223, 517
Tachyphylaxis, 1127, 1134
Tartaric acid, 775
Taste, 159
Taurine, 563
Teeth, 1455
Temperature, 391, 473, 476, 1078, 1282, 1287
Temporal lobe syndrome, 273
Tendons, 299
Tension, 56, 423, 453
Teosinte, 1474
Teratogenesis, 70
Terpenes, 656
Testis, 371
Testosterone, 117, 373, 565, 680
Tetanus, 1549
Tetraenoic acids, 1409
Tetraethylammonium, 1091
Tetraethylpyrophosphate, 824, 1204
Tetrahydrohydrocortisone, 982
2-(1,2,3,4-Tetrahydro-1-naphthyl) imidazoline hydrochloride, 1088
Tetrahydrozoline, 1143
Tetrahymena, 944
Tetrazolium, 1366
Thalamus, 463
Thermophils, 603
Thiamine, 456, 1375, 1406, 1439, 1457
Thiamylal sodium, 1257
Thiazane carboxylic acid, 998
Thiazolidine carboxylic acid, 722
Thioctic acid, 440
Thiocyanate, 600
Thioether, 589
Thioglycosides, 708
Thiolesters, 750, 1581
Thiopental, 1076, 1256, 1277
Thiouracil, 372
Thorax, 1574
Thorium dioxide, 251, 1187
Threonine, 731, 889, 1415, 1464
Thrombin, 506, 543, 746, 780
Thrombocytopenia, 469, 1324, 1337
Thromboplastin, 707, 1335
Thromboplastinogen, 860
Thymidine, 72, 694
Thymidinetriphosphate, 853
Thymine, 570, 677
Thymus, 480, 853, 1258
Thyroglobulin, 1107
Thyroid, 107, 142, 359, 528, 610, 788, 809, 819, 1170, 1184, 1364, 1398, 1544
Thyrotrophin, 788
Thyroxine, 278, 383, 503, 623, 635, 948
Tin, 1386
Tissue culture, 211, 1327, 1346, 1347, 1480, 1482, 1502, 1509, 1510, 1515, 1519, 1527, 1529, 1531, 1532, 1543, 1548
Tissue injury, 1352, 1371
Tissues, 24, 67, 117, 220, 390, 843, 1009, 1081, 1311, 1314, 1321, 1322, 1331, 1342, 1358, 1576
Titration, 1297
Tobacco mosaic virus, 1542
Tocopherol, 561, 837, 875, 1394, 1395, 1414, 1430, 1440, 1447, 1453, 1454, 1456
Tolerance, 1145
3-(*O*-Toloxy-1,2 propanediol), 534, 1028, 1183
Tooth enamel, 1432
Tortillas, 1460
Touch, 337
Tourniquet, 1194
Toxicity, 131, 158, 179, 247, 261, 265, 349, 454, 1013, 1032, 1034, 1082, 1084, 1100, 1137, 1216, 1233, 1275, 1444
Toxin, 593, 1516, 1522
Toxoid, 1549
Toxoplasma, 1302, 1496
Tracers, 121, 192, 805
Trachea, 306
Tracheotory, 57
Transaldolase, 924
Transaminase, 969
Transamination, 377, 893
Transcapillary exchange, 395
Transfer reactions, 773
Transglucosylation, 848
Transketolase, 924
Transmission, 1089
Transphosphorylations, 932
Transplantation, 76, 781, 1289, 1329, 1367
Transport, 725, 758
Trienoic acid, 1409
Triethylene melamine, 1274
Trifluoroethyl-vinyl ether, 1214
Triglycerides, 555
Triiodothyronine, 24, 126, 635
Triphosphates, 932
Trypanosomiasis, 1353
Trypsin, 334, 519, 824, 878, 964, 1016, 1495
Tryptophan, 1310, 1364, 1404, 1434, 1460
Tubercle bacilli, 1567
Tuberculosis, 1313, 1365, 1491
Tubocurarine, 1036, 1167
Tubular excretion, 1219
Tubular reabsorption, 181
Tubular transport, 156, 1142
Tungstate, 972
Tungsten, 972
Typhoid, 1413
Typhus, 1498
Tyramine, 207
Tyrosine, 664, 676, 754, 941, 1425, 1458

Ulcer, 255, 1055
Ultrasound, 166, 1486
Ultraviolet, 386, 393, 712
Upper respiratory tract disease, 1483
Uracil, 694, 785
Urea, 85, 616, 647, 671, 965, 1356
Ureidosuccinic acid, 999
Uremia, 341
Ureter, 1334
Uricases, 806, 959

Uridines, 622, 720
Uridylic acid, 1045
Urine, 56, 66, 403, 559, 618, 662, 671, 719, 851, 856, 910, 941, 957, 960, 1000, 1080, 1259, 1385, 1388
Urokinase, 82
Uropepsin, 104
Uroporphyrin, 592
Ustilago sphaerogena, 702
Uterus, 1068, 1503

Vaccination, 1489, 1518
Vaccines, 1498
Vaccinia, 1558
Valmid, 1251
Valsalva maneuver, 193
Vascular lesions, 1316, 1342, 1356
Vascular system, 1336
Vascular tone, 21
Vasoconstriction, 326, 531
Vasodilatation, 326
Vasomotion, 33
Vasomotor activity, 1026
Vasopressor activity, 1029
Vector cardiography, 58, 348, 432, 452, 1578
Vena cava, 208
Venom, 646
Venomotor tone, 6, 415
Ventricles, 410, 1573
Ventricular contractions, 1064
Ventricular fibrillation, 28, 191, 226, 353, 413, 1046, 1077
Veratrum alkaloids, 1018, 1025
Vesicular stomatitis, 1529
Vestibular stimulation, 178
Viruses, 683, 1227, 1287, 1312, 1318, 1340, 1345, 1347, 1354
Viscera, 173, 361, 797
Vision, 538
Vitamins, 661
Vitamin A, 202, 285, 971, 991, 1379, 1381, 1412, 1413, 1420, 1439, 1443, 1454, 1471
Vitamin B's, 1304, 1362, 1364, 1402, 1413
Vitamin B_{12}, 72, 149, 183, 184, 323, 642, 672, 827, 939, 1004, 1388, 1398, 1400, 1412, 1441, 1463, 1464
Vitamin D, 1379, 1406, 1413
Vitamin E, 910
V wave, 95

Waking center, 463
Water, 50, 101, 365, 430, 671, 1424, 1451
Wedge pressure, 95
Weight, 280
Wheat, 1395, 1415, 1464
Wilson's disease, 1408
Work output, 44, 75, 503, 517, 1376
Wounds, 1363

Xanthines, 654, 730, 870
Xanthine oxidase, 579, 760, 1138
X-rays, 457, 480, 954, 1062, 1274, 1371, 1387, 1493, 1549, 1556
L-Xylulose, 951
Xylylenebis (isoquinolinium bromide), 1157

Yeast, 500, 674, 704, 896, 931, 961, 1002, 1394, 1453
Yttrium, 778

Zinc, 789
Zymozan, 1351

FEDERATION NOTICE

To facilitate the publication of an accurate and up-to-date Membership List in the December issue of FEDERATION PROCEEDINGS, it is requested that *any member whose entry in the December 1954 issue is incorrect* furnish the Secretary of his society with the following data, in duplicate, on 3″ x 5″ cards: Name; Degree (highest); Mailing Address (street address, city, zone, state); Present Position (title and department or branch); Society membership and year of election to membership in that society. If you are retired, give only degree(s), home address, and society membership(s) with year(s). If you are officially carried on the rolls of your society as a retired or honorary member please so indicate.

Names and addresses of the Society Secretaries are as follows:

The American Physiological Society—Dr. M. O. LEE, *Executive Secretary*, 9650 Wisconsin Ave., Washington 14, D. C.

American Society of Biological Chemists—Dr. PHILIP HANDLER, Duke University School of Medicine, Durham, N. C.

American Society for Pharmacology and Experimental Therapeutics—Dr. CARL C. PFEIFFER, Emory University School of Medicine, Emory University, Ga.

The American Society for Experimental Pathology—Dr. C. C. ERICKSON, Institute of Pathology, University of Tennessee, Memphis 3, Tenn.

American Institute of Nutrition—Dr. R. W. ENGEL, Virginia Polytechnic Institute, Blacksburg, Va.

The American Association of Immunologists—Dr. F. S. CHEEVER, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pa.

At any future time when you wish a correction made, please notify your Society Secretary by supplying all required information as above. Your Secretary, in turn, will forward the information to the Federation Secretary.